SONY
Help Guide
Still Camera
RX10

Cyber-shot

Use this manual if you encounter any problems, or have any questions about your device.

How to Use
Before Use
Confirming the operation method
Shooting
Using shooting functions
Viewing
Changing settings
Using Wi-Fi functions
Viewing on computers
Precautions/This product
Troubleshooting
If you have problems
Troubleshooting
Messages
Situations this product has difficulty handling
Search Topics
How to Use
Troubleshooting

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Before Use

Names of parts
Icons and indicators
Using the strap
Attaching the eyepiece cup
Adjusting the viewfinder
In-Camera guide

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Confirming the operation method

Confirming the operation method

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Shooting

Shooting still images/movies

Selecting a shooting mode

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Using shooting functions

Using the zoom
Using the flash
Selecting a screen display mode
Selecting still image size/image quality
Adjusting the focus
Adjusting the exposure
Selecting a drive mode (Continuous shooting/Self-timer)
Selecting the ISO sensitivity
Correcting the brightness or contrast
Adjusting color tones
Selecting an effect mode
Recording movies
Customizing the shooting functions for convenient use
Setting the other functions of this product

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Viewing

Viewing still images
Deleting images
Playing back movies
Viewing panoramic images
Printing
Using viewing functions
Viewing images on a TV

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Changing settings

Setup menu

Notes on use

4-477-079-12(1)

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SONY

Help Guide

Use

Still Camera

DSC-RX10

Using Wi-Fi functions

Connecting this product and a Smartphone
Controlling this product using a Smartphone
Transferring images to a Smartphone
Transferring images to a computer
Transferring images to a TV
Changing the settings of Wi-Fi functions

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Viewing on computers

Recommended computer environment
Using the software
Connecting this product and a computer
Creating a movie disc

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Precautions/This product

Precautions
Cleaning this product
Number of recordable still images and recordable time of movies
Using this product abroad
Other information
Trademarks

Notes on use

4-477-079-12(1)

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Help Guide

eshooting

Still Camera

DSC-RX10

If you have problems

If you have problems

Notes on use

4-477-079-12(1)

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Help Guide

eshooting

Still Camera

DSC-RX10

Troubleshooting

Battery pack and power
Shooting still images/movies
Viewing images
Wi-Fi
Computers
Memory cards
Printing
Others

Notes on use

4-477-079-12(1)

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SONY

Help Guide

eshooting

Still Camera

DSC-RX10

Messages

Messages

Notes on use

4-477-079-12(1)

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SONY

Help Guide

eshooting

Still Camera

DSC-RX10

Situations this product has difficulty handling

Situations this product has difficulty handling

Notes on use

4-477-079-12(1)

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SONY
Help Guide
Topics
Still Camera
DSC-RX10

How to Use

Before Use

Names of parts

Identifying parts

Icons and indicators

List of icons on the screen

Display panel

Using the strap

Using the shoulder strap

Attaching the eyepiece cup

Attaching the eyepiece cup

Adjusting the viewfinder

Adjusting the viewfinder (diopter-adjustment)

In-Camera guide

About the [In-Camera Guide]

Confirming the operation method

Confirming the operation method

Using the control wheel

Using MENU items

Using the Fn (Function) button

Using the “Quick Navi”

Shooting

Shooting still images / movies

Shooting still images

Shooting movies

Selecting a shooting mode

List of mode dial functions

Intelligent Auto

Superior Auto

About Scene Recognition

The advantages of automatic shooting

Program Auto

Sweep Panorama

Scene Selection

Shutter Priority

Aperture Priority
Manual Exposure
BULB
Memory recall
Movie
Using shooting functions
Using the zoom
Zoom
The zoom features available with this product
Zoom Setting
About zoom scale
Smart Telecon.
Zoom Func. on Ring
Using the flash
Using flash
Flash Mode
Flash Comp.
Selecting a screen display mode
Switching the screen display (Shooting)
DISP Button (Finder)
DISP Button (Monitor)
Selecting still image size / image quality
Image Size (still image)
Aspect Ratio (still image)
Quality (still image)
Panorama: Size
Panorama: Direction
Adjusting the focus
Changing the focus method using the focus mode dial
Focus Area
Focus-lock
Manual Focus
Direct manual focus (DMF)
MF Assist (still image)
Focus Magnifier
Focus Magnif. Time
Peaking Level
Peaking Color
Lock-on AF
Lock-on AF (On)

Pre-AF (still image)
AF/MF control
AF Illuminator (still image)
Eye AF
Measuring the exact distance to the subject
Adjusting the exposure
Exposure compensation dial
Metering Mode
AE lock
AEL w/ shutter (still image)
Exp.comp.set
Zebra
Exposure Set. Guide
Selecting a drive mode (Continuous shooting/Self-timer)
Drive Mode
Cont. Shooting
Spd Priority Cont.
Self-timer
Self-timer(Cont)
Cont. Bracket
Single Bracket
WB bracket
DRO Bracket
Bracket order
Selecting the ISO sensitivity
ISO
Multi Frame NR
Correcting the brightness or contrast
D-Range Opt. (DRO)
Auto HDR
Adjusting color tones
White Balance
Capturing a basic white color in [Custom Setup] mode
Selecting an effect mode
Picture Effect
Creative Style
Recording movies
File Format (movie)
Record Setting (movie)
SteadyShot (movie)

Audio Recording
Audio Level Display
Audio Rec Level
Audio Out Timing
Wind Noise Reduct.
Auto Slow Shut. (movie)
MOVIE Button

Customizing the shooting functions for convenient use

Memory
Function Menu Set.
Custom Key Settings
Function of the control wheel
Function of the AEL button
Function of the C button
Function of the center button
Function of the left button
Function of the right button
Function of the down button

Setting the other functions of this product

Smile/Face Detect.
Soft Skin Effect (still image)
Face Registration (New Registration)
Face Registration (Order Exchanging)
Face Registration (Delete)
Red Eye Reduction
Auto Obj. Framing (still image)
SteadyShot (still image)
Long Exposure NR (still image)
High ISO NR (still image)
Write Date (still image)
Color Space (still image)
Grid Line
Auto Review
Live View Display
FINDER/MONITOR
Dial / Wheel Lock
Deactivate Monitor
ND Filter

Viewing

Viewing still images

Playing back images
Playback zoom
Image Index
Switching the screen display (during playback)
Deleting images
Deleting a displayed image
Deleting multiple selected images
Playing back movies
Playing back movies
Viewing panoramic images
Playing back panoramic images
Printing
Specify Printing
Using viewing functions
View Mode
Display Rotation
Slide Show
Rotate
Protect
4K Still Image PB
Viewing images on a TV
Viewing images on an HD TV
Viewing images on a “BRAVIA” Sync-compatible TV
Changing settings
Setup menu
Monitor Brightness
Viewfinder Bright.
Finder Color Temp.
Volume Settings
Audio signals
Upload Settings(Eye-Fi)
Tile Menu
Mode Dial Guide
Delete confirm.
Display Quality
Pwr Save Start Time
PAL/NTSC Selector
Demo Mode
HDMI Resolution
CTRL FOR HDMI

HDMI Info. Display
USB Connection
USB LUN Setting
Language
Date/Time Setup
Area Setting
Format
File Number
Select REC Folder
New Folder
Folder Name
Recover Image DB
Display Media Info.
Version
Setting Reset
Using Wi-Fi functions
Connecting this product and a Smartphone
“PlayMemories Mobile”
Connecting an Android smartphone to this product
Connecting the product to an iPhone or iPad
Controlling this product using a Smartphone
Ctrl w/ Smartphone
One-touch connection with an NFC-enabled Android smartphone (NFC One-touch remote)
Transferring images to a Smartphone
Send to Smartphone
Sending images to an Android smartphone (NFC One-touch Sharing)
Transferring images to a computer
Send to Computer
Transferring images to a TV
View on TV
Changing the settings of Wi-Fi functions
Airplane Mode
WPS Push
Access Point Set.
Edit Device Name
Disp MAC Address
SSID/PW Reset
Reset Network Set.
Viewing on computers
Recommended computer environment

Recommended computer environment
Using the software
“PlayMemories Home”
Installing “PlayMemories Home”
Software for Mac computers
“Image Data Converter”
Installing “Image Data Converter”
Accessing “Image Data Converter Guide”
Connecting this product and a computer
Connecting the product to a computer
Importing images to the computer
Disconnecting the product from the computer
Creating a movie disc
Disc type
Selecting the disc creation method
Creating a disc with a device other than a computer
Creating Blu-ray Discs
Precautions/This product
Precautions
Precautions
On the internal rechargeable battery
Notes on the battery pack
Charging the battery pack
Memory card
Cleaning this product
On cleaning
Number of recordable still images and recordable time of movies
Number of still images
Recordable time of movies
Using this product abroad
Plug adaptor
On TV color systems
Other information
Carl Zeiss lens
AVCHD format
License
Trademarks
Trademarks

Notes on use
4-477-079-12(1)

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Help Guide
Topics
Still Camera
DSC-RX10

Troubleshooting

If you have problems

If you have problems

Troubleshooting

Troubleshooting

Battery pack and power

You cannot insert the battery pack into the product.
You cannot turn on the product.
The power turns off suddenly.
The remaining battery level indicator shows an incorrect level.
The charge lamp on the product flashes when charging the battery pack.
The battery pack has not been charged even if the charge lamp on the product has turned off.
The battery pack is not charged.

Shooting still images / movies

You cannot record images.
Recording takes a long time.
The image is out of focus.
Zoom does not work.
The flash does not work.
Fuzzy white circular spots appear on images shot using the flash.
The close-up shoot function (Macro) does not work.
The recording date and time are not displayed on the screen.
The date and time are recorded incorrectly.
The aperture value and/or shutter speed and/or metering indicator flashes.
The image colors are not correct.
Noise appears in the image when you view the screen in a dark place.
Dark shadow appears on the image.
The eyes of the subject come out red.
Dots appear and remain on the screen.
You cannot shoot images continuously.
The image is not clear in the viewfinder.
The image is whitish (Flare)./Blurring of light appears on the image (Ghosting).
The image is blurred.
The LCD screen darkens after a short period of time passed.
The flash takes too long to recharge.

Viewing images

Images cannot be played back.

The date and time are not displayed.

The image cannot be deleted.

The image was deleted by mistake.

A DPOF mark cannot be put.

Wi-Fi

You cannot find the wireless access point to be connected.

[WPS Push] does not work.

[Send to Computer] is canceled halfway.

You cannot send movies to a smartphone.

[Ctrl w/ Smartphone] or [Send to Smartphone] is canceled halfway.

The shooting screen for [Ctrl w/ Smartphone] is not displayed smoothly./The connection between this product and the smartphone is disconnected.

You cannot use One-Touch connection (NFC).

Computers

The computer does not recognize this product.

You cannot import images.

The image and sound are interrupted by noise when viewing a movie on a computer.

Images exported from a computer cannot be viewed on this product.

Memory cards

Formatted the memory card by mistake.

Printing

You cannot print images.

The color of the image is strange.

Images are printed with both edges cut off.

You cannot print images with the date.

Others

The lens gets fogged.

The product stops with the lens portion extended./The product turns off with the lens portion extended.

The product becomes warm when you use it for a long time.

The Clock Set screen appears when you turn on the product.

The number of recordable images does not decrease, or decreases two images at a time.

The product does not work properly.

Messages

Messages

Self-diagnosis display

Warning messages

Situations this product has difficulty handling

Situations this product has difficulty handling

Situations this product has difficulty handling

Notes on use

4-477-079-12(1)

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SONY
Help Guide



Still Camera
X10

Notes on use

Before use

To make full use of this content, please read the following notes thoroughly. Please note that they are subject to change without prior notice.

June 2013

Recommended system environment

The following system environments are recommended for displaying this content. You may not be able to view the content on other system environments.

- **For viewing on a computer**

  Recommended browser

  – With Microsoft Windows
    – Microsoft Internet Explorer 8 or later
    – Mozilla Firefox: latest version
    – Google Chrome™ : latest version
  – With Apple Mac OS
    – Apple Safari Ver. 5 or later
    – Mozilla Firefox: latest version
    – Google Chrome™ : latest version

- **For viewing on a smartphone or tablet**

  Basic operation has been confirmed on the standard browser for the noted devices running the following operating systems.

  – Android 2.3 or later: Xperia series, Walkman running Android
  – iOS 4 or later: iPhone, iPod touch, iPad

- **JavaScript**

  JavaScript is used with this content for viewing convenience. If JavaScript is disabled in your web browser settings, the content may not operate properly or it may not be displayed correctly.

- **Style Sheets**

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Notes on use
4-477-079-12(1)
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SONY

Help Guide

Use

Still Camera

DSC-RX10

Names of parts

Identifying parts

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Icons and indicators

List of icons on the screen

Display panel

You can set the shutter speed and aperture, exposure compensation, flash compensation, ISO, white balance, drive mode, and image quality, etc., using the display panel on top of the camera.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Using the strap

Using the shoulder strap

Attach the shoulder strap to prevent damage caused by dropping the product.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Attaching the eyepiece cup

Attaching the eyepiece cup

It is recommended that you attach the eyepiece cup when you intend to use the viewfinder.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Adjusting the viewfinder

Adjusting the viewfinder (diopter-adjustment)

Adjust the diopter-adjustment dial to your eyesight until the display appears clearly in the viewfinder.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

In-Camera guide

About the [In-Camera Guide]

The [In-Camera Guide] displays descriptions of MENU items, Fn (Function) button, and settings, and if a function cannot be set, the reason why.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Confirming the operation method

Using the control wheel

Using MENU items

In this section, you learn how to change settings related to all camera operations and execute camera functions including shooting, playback, and operation methods.

Using the Fn (Function) button

You can recall functions when shooting images.

Using the “Quick Navi”

You can change the settings directly using the Quick Navi screen when using the viewfinder.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Shooting still images/movies

Shooting still images

Shoots still images.

Shooting movies

You can record movies by pressing the MOVIE button.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Selecting a shooting mode

List of mode dial functions

You can select the desired shooting mode by turning the mode dial.

Intelligent Auto

The product analyzes the subject, and allows you to shoot with appropriate settings.

Superior Auto

The product automatically recognizes and evaluates the shooting conditions, and the appropriate settings are set automatically.

About Scene Recognition

Scene Recognition operates in [Intelligent Auto] mode and [Superior Auto] mode.

The advantages of automatic shooting

Program Auto

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).

Sweep Panorama

Allows you to create a single panoramic image from multiple images shot while panning the camera.

Scene Selection

Allows you to shoot with preset settings according to the scene.

Shutter Priority

You can express the movement of a moving subject in various ways by adjusting the shutter speed, for example, at the instant of the movement with high speed shutter, or as a trailing image with low speed shutter.

Aperture Priority

You can shoot by adjusting the aperture and changing the range in focus, or by defocusing the background.

Manual Exposure

You can shoot with the desired exposure setting by adjusting both the shutter speed and aperture.

BULB

You can shoot a trailing image of the movement of a subject with long exposure.

Memory recall

Allows you to shoot an image after recalling often-used modes or camera settings registered in advance.

Movie

You can adjust the shutter speed or aperture value to your desired settings for recording movies.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Using the zoom

Zoom

Enlarge images using the W/T (zoom) lever when shooting.

The zoom features available with this product

The zoom feature of the product provides a higher magnification zoom by combining various zoom features.

Zoom Setting

You can select the zoom setting of the product.

About zoom scale

The zoom scale that is used in combination with optical zoom 8.3x changes according to the selected image size. Optical zoom 8.3x is equivalent to 35 mm-format focal length 24 mm-200 mm.

Smart Telecon.

Smart Teleconverter magnifies and trims the center of the image, then records it.

Zoom Func. on Ring

Sets the zoom functions when using the manual ring to change zoom scales.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Using the flash

Using flash

In dark environments, use the flash to light up the subject while shooting and to prevent camera-shake. When shooting against the sun, use the flash to lighten the image of the backlit subject.

Flash Mode

You can set the flash mode.

Flash Comp.

Adjusts the amount of flash light in a range of –3.0 EV to +3.0 EV.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Selecting a screen display mode

Switching the screen display (Shooting)

You can change the display contents on the screen.

DISP Button (Finder)

Allows you to set the screen display modes that can be selected for the viewfinder using DISP (Display Setting) in shooting mode.

DISP Button (Monitor)

Allows you to set the screen display modes that can be selected for the monitor using DISP (Display Setting) in shooting mode.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Selecting still image size/image quality

Image Size (still image)

The larger the image size, the more detail will be reproduced when the image is printed on large-format paper. The smaller the image size, the more images can be recorded.

Aspect Ratio (still image)

Sets the aspect ratio of still images.

Quality (still image)

Selects the compression format of still images.

Panorama: Size

Sets the image size when shooting panoramic images.

Panorama: Direction

Sets the direction to pan the camera when shooting panoramic images.

Notes on use

4-477-079-12(1)

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SONY
Help Guide
Use
Still Camera
DSC-RX10

Adjusting the focus

Changing the focus method using the focus mode dial

You can select the focusing method to suit the movement of the subject.

Focus Area

Selects the focusing area. Use this function when it is difficult to get the proper focus in auto focus mode.

Focus-lock

Shoots images with the focus locked on the desired subject in auto focus mode.

Manual Focus

When it is difficult to get the proper focus in autofocus mode, you can adjust the focus manually.

Direct manual focus (DMF)

You can make fine adjustments manually after the focus is locked.

MF Assist (still image)

Enlarges the image on the screen automatically to make manual focusing easier. This works in Manual Focus or Direct Manual Focus shooting.

Focus Magnifier

You can check the focus by enlarging the image before shooting.

Focus Magnif. Time

Set the duration for which an image is to be magnified using the [MF Assist] or [Focus Magnifier] function.

Peaking Level

Enhances the outline of in-focus ranges using a specific color in Manual Focus or Direct Manual Focus shooting. This function allows you to confirm the focus easily.

Peaking Color

Sets the color used for the peaking function in Manual Focus or Direct Manual Focus shooting.

Lock-on AF

Set up the tracking function to continue focusing on the subject.

Lock-on AF (On)

Maintains the focus on a moving subject automatically.

Pre-AF (still image)

The product automatically adjusts focus before you press the shutter button halfway down.

AF/MF control

You can easily switch the focusing mode from auto to manual and vice versa while shooting without changing your holding position.

AF Illuminator (still image)

The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. The

red AF illuminator allows the product to focus easily when the shutter button is pressed halfway, until the focus is locked.

Eye AF

Focuses on a person’s eyes when you press the button.

Measuring the exact distance to the subject

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Adjusting the exposure

Exposure compensation dial

Based on the exposure value set by auto exposure, you can make the entire image brighter or darker if you adjust [Exposure Comp.] to the plus side or minus side, respectively (exposure compensation).

Metering Mode

Selects the metering mode that sets which part of the screen to measure for determining the exposure.

AE lock

When the contrast between the subject and background is high, such as when shooting a backlit subject or a subject near a window, meter the light at a spot where the subject appears to have the appropriate brightness and lock the exposure before shooting.

AEL w/ shutter (still image)

Sets whether to fix the exposure when you press the shutter button halfway down.

Exp.comp.set

Sets whether to apply the exposure compensation value to control both flash light and ambient light, or just ambient light.

Zebra

The zebra pattern will appear over the part of an image if the brightness level exceeds the IRE that you set.

Exposure Set. Guide

Sets the guide displayed when exposure settings are changed in the shooting screen.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Selecting a drive mode (Continuous shooting/Self-timer)

Drive Mode

You can set the drive mode, such as continuous or self-timer shooting.

Cont. Shooting

Shoots images continuously while you press and hold down the shutter button.

Spd Priority Cont.

The product continues to shoot as long as the shutter button is pressed. You can continuously shoot at a rate faster than that of [Cont. Shooting].

Self-timer

The product shoots an image using the self-timer with a 10-second or 2-second delay.

Self-timer(Cont)

Continuously shoots the number of images you have set after 10 seconds.

Cont. Bracket

Shoots multiple images while automatically shifting the exposure from base to darker and then to lighter. Press and hold down the shutter button until the bracket recording is completed.

Single Bracket

Shoots multiple images while automatically shifting the exposure from base to darker and then to lighter. Press the shutter button for each image.

WB bracket

Shoots three images, each with different degrees of brightness according to the selected settings of white balance, color temperature and color filter.

DRO Bracket

You can record a total of three images, each at a different degree of D-Range Optimizer value.

Bracket order

You can set the shooting order for exposure bracketing and white balance bracketing.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Selecting the ISO sensitivity

ISO

Sensitivity to light is expressed by the ISO number (recommended exposure index).

Multi Frame NR

The product automatically shoots multiple images continuously, combines them, reduces the noise, and records them as one image.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Correcting the brightness or contrast

D-Range Opt. (DRO)

By dividing the image into small areas, the product analyzes the contrast of light and shadow between the subject and the background, and creates an image with the optimal brightness and gradation.

Auto HDR

Widens the range (gradation) so that you can record from bright parts to dark parts with correct brightness (HDR: High Dynamic Range).

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Adjusting color tones

White Balance

Adjusts the color tones according to the ambient light conditions.

Capturing a basic white color in [Custom Setup] mode

In a scene where the ambient light consists of multiple types of light sources, it is recommended to use the custom white balance in order to accurately reproduce the whiteness.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Selecting an effect mode

Picture Effect

Select the desired effect filter to achieve more impressive and artistic images.

Creative Style

Allows you to select the desired image processing. You can adjust exposure (shutter speed and aperture) as you like with [Creative Style], unlike with [Scene Selection] where the product adjusts the exposure.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Recording movies

File Format (movie)

Selects the movie file format.

Record Setting (movie)

Selects the image size, frame rate, and image quality for movie recording.

SteadyShot (movie)

Sets [SteadyShot] effect when shooting movies.

Audio Recording

Sets whether to record sounds when shooting movies.

Audio Level Display

Sets whether to display the audio level on the screen.

Audio Rec Level

You can adjust the audio recording level while checking the level meter.

Audio Out Timing

When using headphones, you can set echo cancellation while shooting.

Wind Noise Reduct.

Sets whether or not to reduce wind noise during movie recording.

Auto Slow Shut. (movie)

Set whether or not to adjust the shutter speed automatically when recording movies if the subject is dark.

MOVIE Button

Sets whether or not to activate the MOVIE button.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Customizing the shooting functions for convenient use

Memory

Allows you to register up to two often-used modes or product settings in the product. You can recall the settings using just the mode dial.

Function Menu Set.

You can assign the functions to be called up when you press the Fn (Function) button.

Custom Key Settings

Assigning functions to the various keys allows you to speed up operations by pressing the appropriate key when the shooting information screen is displayed.

Function of the control wheel

Once you assign a function to the control wheel, you can perform that function by simply turning the wheel when the shooting information screen is displayed.

Function of the AEL button

Once you assign a function to the AEL button, you can perform that function by simply pressing the AEL button when the shooting information screen is displayed.

Function of the C button

Once you assign a function to the C button, you can perform that function by simply pressing the C button when the shooting information screen is displayed.

Function of the center button

Once you assign a function to the center button, you can perform that function by simply pressing the center button when the shooting information screen is displayed.

Function of the left button

Once you assign a function to the left button, you can perform that function by simply pressing the left button when the shooting information screen is displayed.

Function of the right button

Once you assign a function to the right button, you can perform that function by simply pressing the right button when the shooting information screen is displayed.

Function of the down button

Once you assign a function to the down button, you can perform that function by simply pressing the down button when the shooting information screen is displayed.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Setting the other functions of this product

Smile/Face Detect.

Detects the faces of your subjects and adjusts the focus, exposure, flash settings and performs image processing automatically.

Soft Skin Effect (still image)

Sets the effect used for shooting the skin smoothly in the [Face Detection] function.

Face Registration (New Registration)

If you register faces in advance, the product can detect the registered face as a priority when [Face Detection] is set to [On (Regist. Faces)].

Face Registration (Order Exchanging)

When multiple faces are registered to be given priority, the face registered first will be given priority. You can change the priority order.

Face Registration (Delete)

Deletes a registered face.

Red Eye Reduction

When using the flash, it is fired two or more times before shooting to reduce the red-eye phenomenon.

Auto Obj. Framing (still image)

When this product detects and shoots faces, macro shooting subjects or subjects that are tracked by [Lock-on AF], the product automatically trims the image into an appropriate composition, and then saves it.

SteadyShot (still image)

Sets whether or not to use the SteadyShot function.

Long Exposure NR (still image)

When you set the shutter speed to 1/3 second or longer (long exposure shooting), noise reduction is turned on for the duration that the shutter is open. With the function turned on, the grainy noise typical of long exposures is reduced.

High ISO NR (still image)

When shooting with high ISO sensitivity, the product reduces noise that becomes more noticeable when the product sensitivity is high.

Write Date (still image)

Sets whether to record a shooting date on the still image.

Color Space (still image)

The way colors are represented using combinations of numbers or the range of color reproduction is called “color space.” You can change the color space depending on the purpose of the image.

Grid Line

Sets whether the grid line is displayed or not. The grid line will help you to adjust the composition of images.

Auto Review

You can check the recorded image on the screen right after the shooting.

Live View Display

Sets whether or not to show images altered with effects of the exposure compensation, white balance, [Creative Style], or [Picture Effect] on the screen.

FINDER/MONITOR

Switches the display between Electronic Viewfinder and the screen.

Dial / Wheel Lock

You can set whether the dial and wheel will be locked by pressing and holding the Fn (Function) button.

Deactivate Monitor

When you press the key to which the [Deactivate Monitor] function is assigned, the monitor display is turned off.

ND Filter

If you use an ND filter, the amount of light entering the camera is reduced. You can slow down the shutter speed and decrease the aperture value for a better exposure.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Viewing still images

Playing back images

Plays back the recorded images.

Playback zoom

Enlarges the image being played back.

Image Index

You can display multiple images at the same time in playback mode.

Switching the screen display (during playback)

Switches the screen display.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Deleting images

Deleting a displayed image

You can delete an image displayed.

Deleting multiple selected images

You can delete multiple selected images.

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Help Guide

Use

Still Camera

DSC-RX10

Playing back movies

Playing back movies

Plays back the recorded movies.

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Help Guide

Use

Still Camera

DSC-RX10

Viewing panoramic images

Playing back panoramic images

The product automatically scrolls a panoramic image from end to end.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Printing

Specify Printing

You can specify in advance on the memory card which still images you want to print out later.

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Help Guide

Use

Still Camera

DSC-RX10

Using viewing functions

View Mode

Sets the View Mode (image display method).

Display Rotation

Selects the orientation when playing back recorded still images.

Slide Show

Automatically plays back images continuously.

Rotate

Rotates a recorded still image counter-clockwise.

Protect

Protects recorded images against accidental erasure.

4K Still Image PB

Outputs still images in 4K resolution to an HDMI-connected TV that supports 4K.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Viewing images on a TV

Viewing images on an HD TV

To view images stored on this product using a TV, an HDMI cable (sold separately) and an HD TV equipped with an HDMI jack are required.

Viewing images on a “BRAVIA” Sync-compatible TV

By connecting this product to a TV that supports “BRAVIA” Sync using an HDMI cable (sold separately), you can operate this product with the TV Remote Control.

Notes on use

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Help Guide
Use
Still Camera
DSC-RX10

Setup menu

Monitor Brightness
You can adjust the brightness of the screen.

Viewfinder Bright.
When using an electronic viewfinder, this product adjusts the brightness of the electronic viewfinder.

Finder Color Temp.
Adjusts the color temperature of the electronic viewfinder.

Volume Settings
Adjusts the sound volume.

Audio signals
Selects whether the product produces sound or not when you operate the product.

Upload Settings(Eye-Fi)
Sets whether to use the upload function when using an Eye-Fi card (commercially available).

Tile Menu
Selects whether to always display the first screen of the menu when you press the MENU button.

Mode Dial Guide
You can display the description of a shooting mode when you turn the mode dial and change the settings available for that shooting mode.

Delete confirm.
You can set whether [Delete] or [Cancel] is selected as the default setting on the delete confirmation screen.

Display Quality
You can change the display quality.

Pwr Save Start Time
You can set time intervals to switch to power save mode.

PAL/NTSC Selector
Plays back movies recorded with the product on a PAL/NTSC system TV.

Demo Mode
The [Demo Mode] function displays the movies recorded on the memory card automatically (demonstration), when the camera has not been operated for a certain time.

HDMI Resolution
When you connect the product to a High Definition (HD) TV with HDMI terminals using an HDMI cable (sold separately), you can select HDMI Resolution to output images to the TV.

CTRL FOR HDMI
When connecting this product to a “BRAVIA” Sync-compatible TV using an HDMI cable (sold

separately), you can operate this product by aiming the TV remote control at the TV.

HDMI Info. Display

Selects whether to display the shooting information when this product and the TV are connected using an HDMI cable (sold separately).

USB Connection

Selects the appropriate USB connection method for each computer or USB device connected to this product.

USB LUN Setting

Enhances compatibility by limiting of USB connection functions.

Language

Selects the language to be used in the menu items, warnings and messages.

Date/Time Setup

Sets the date and time again.

Area Setting

Sets the area where you are using the product.

Format

Formats (initializes) the memory card.

File Number

Selects how to assign file numbers to recorded images.

Select REC Folder

You can change the recording folder to which images are recorded.

New Folder

Creates a new folder in the memory card.

Folder Name

Still images you shoot are recorded in a folder that is automatically created under the DCIM folder on the memory card. You can change the way folder names are assigned.

Recover Image DB

If image files were processed on a computer, problems may occur in the image database file. In such cases, the images on the memory card will not be played back on this product. If these problems happen, repair the file using [Recover Image DB].

Display Media Info.

Displays the recordable time of movies and the number of recordable still images for the inserted memory card.

Version

Displays the version of this product’s software.

Setting Reset

Resets the product to the default settings.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Connecting this product and a Smartphone

“PlayMemories Mobile”

To use [Ctrl w/ Smartphone] or [Send to Smartphone], etc., the application “PlayMemories Mobile” should be installed on your smartphone.

Connecting an Android smartphone to this product

Connecting the product to an iPhone or iPad

Notes on use

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Use

Still Camera

DSC-RX10

Controlling this product using a Smartphone

Ctrl w/ Smartphone

You can use a smartphone as the remote controller for this product and shoot still images.

One-touch connection with an NFC-enabled Android smartphone (NFC One-touch remote)

You can connect this product and an NFC-enabled Android smartphone with one touch, without performing a complex setup operation.

Notes on use

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Use

Still Camera

DSC-RX10

Transferring images to a Smartphone

Send to Smartphone

You can transfer still images to a smartphone and view them.

Sending images to an Android smartphone (NFC One-touch Sharing)

With just one touch, you can connect this product and an NFC-enabled Android smartphone, and send an image displayed on the product screen directly to the smartphone.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Transferring images to a computer

Send to Computer

You can transfer images stored in the product to a computer connected to a wireless access point or wireless broadband router and easily make backup copies using this operation.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Transferring images to a TV

View on TV

You can view images on a network-enabled TV by transferring them from the product without connecting the product and TV with a cable.

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Help Guide
Use
Still Camera
DSC-RX10

Changing the settings of Wi-Fi functions

Airplane Mode

When you board an airplane, etc., you can turn off all Wi-Fi functions temporarily.

WPS Push

If your access point has the WPS button, you can register the access point to this product easily by pushing the WPS button.

Access Point Set.

You can register your access point manually.

Edit Device Name

You can change the device name under Wi-Fi Direct.

Disp MAC Address

Displays the MAC address of this product.

SSID/PW Reset

This product shares the connection information for [Send to Smartphone] and [Ctrl w/ Smartphone] with a device that has permission to connect. If you want to change the device that is permitted to connect, reset the connection information.

Reset Network Set.

Resets all the network settings to default settings.

Notes on use

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Use

Still Camera

DSC-RX10

Recommended computer environment

Recommended computer environment

Notes on use

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Use

Still Camera

DSC-RX10

Using the software

“PlayMemories Home”
Installing “PlayMemories Home”
Software for Mac computers
“Image Data Converter”
Installing “Image Data Converter”
Accessing “Image Data Converter Guide”

Notes on use

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Use

Still Camera

DSC-RX10

Connecting this product and a computer

Connecting the product to a computer

Importing images to the computer

“PlayMemories Home” allows you to easily import images.

Disconnecting the product from the computer

Disconnects the USB connection between this product and the computer.

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Use

Still Camera

DSC-RX10

Creating a movie disc

Disc type

Selecting the disc creation method

You can create a disc from an AVCHD format movie recorded using this product.

Creating a disc with a device other than a computer

You can also create discs using a Blu-ray recorder, etc.

Creating Blu-ray Discs

You can create Blu-ray Discs from AVCHD movies imported to a computer.

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Use

Still Camera

DSC-RX10

Precautions

Precautions

On the internal rechargeable battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or whether the battery pack is charged or discharged.

Notes on the battery pack

Charging the battery pack

Memory card

Notes on use

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Use

Still Camera

DSC-RX10

Cleaning this product

On cleaning

Notes on use

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Use

Still Camera

DSC-RX10

Number of recordable still images and recordable time of movies

Number of still images

Recordable time of movies

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Using this product abroad

Plug adaptor

You can use the AC Adaptor (supplied) in any country or region where the power supply is within 100 V to 240 V AC, 50 Hz/60 Hz.

On TV color systems

To view movies shot using this product on a television, the product and television must use the same color television system.

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Use

Still Camera

DSC-RX10

Other information

Carl Zeiss lens

AVCHD format

License

Notes on use

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Use

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Trademarks

Trademarks

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eshooting

Still Camera

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If you have problems

Troubleshooting

Notes on use

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Battery pack and power

You cannot insert the battery pack into the product.
You cannot turn on the product.
The power turns off suddenly.
The remaining battery level indicator shows an incorrect level.
The charge lamp on the product flashes when charging the battery pack.
The battery pack has not been charged even if the charge lamp on the product has turned off.
The battery pack is not charged.

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Shooting still images/movies

You cannot record images.
Recording takes a long time.
The image is out of focus.
Zoom does not work.
The flash does not work.
Fuzzy white circular spots appear on images shot using the flash.
The close-up shoot function (Macro) does not work.
The recording date and time are not displayed on the screen.
The date and time are recorded incorrectly.
The aperture value and/or shutter speed and/or metering indicator flashes.
The image colors are not correct.
Noise appears in the image when you view the screen in a dark place.
Dark shadow appears on the image.
The eyes of the subject come out red.
Dots appear and remain on the screen.
You cannot shoot images continuously.
The image is not clear in the viewfinder.
The image is whitish (Flare)./Blurring of light appears on the image (Ghosting).
The image is blurred.
The LCD screen darkens after a short period of time passed.
The flash takes too long to recharge.

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Still Camera

DSC-RX10

Viewing images

Images cannot be played back.

The date and time are not displayed.

The image cannot be deleted.

The image was deleted by mistake.

A DPOF mark cannot be put.

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DSC-RX10

Wi-Fi

You cannot find the wireless access point to be connected.
[WPS Push] does not work.
[Send to Computer] is canceled halfway.
You cannot send movies to a smartphone.
[Ctrl w/ Smartphone] or [Send to Smartphone] is canceled halfway.
The shooting screen for [Ctrl w/ Smartphone] is not displayed smoothly./The connection between this product and the smartphone is disconnected.
You cannot use One-Touch connection (NFC).

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Still Camera

DSC-RX10

Computers

The computer does not recognize this product.

You cannot import images.

The image and sound are interrupted by noise when viewing a movie on a computer.

Images exported from a computer cannot be viewed on this product.

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Still Camera

DSC-RX10

Memory cards

Formatted the memory card by mistake.

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Still Camera

DSC-RX10

Printing

You cannot print images.

The color of the image is strange.

Images are printed with both edges cut off.

You cannot print images with the date.

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Still Camera

DSC-RX10

Others

The lens gets fogged.

The product stops with the lens portion extended./The product turns off with the lens portion extended.

The product becomes warm when you use it for a long time.

The Clock Set screen appears when you turn on the product.

The number of recordable images does not decrease, or decreases two images at a time.

The product does not work properly.

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Troubleshooting

Still Camera

DSC-RX10

Messages

Self-diagnosis display

If a code starting with a letter of the alphabet appears, the self-diagnosis function on this product is working.

Warning messages

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DSC-RX10

Situations this product has difficulty handling

Situations this product has difficulty handling

Notes on use

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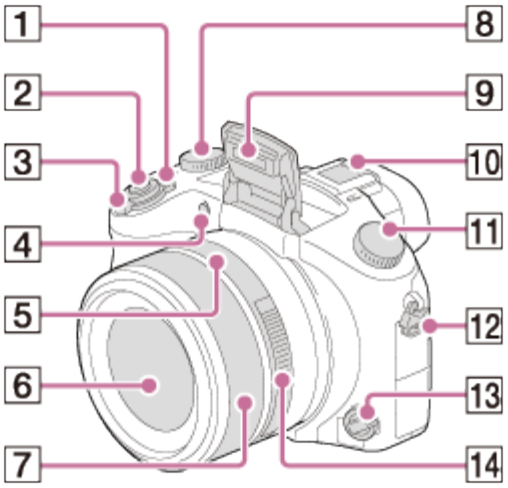
Help Guide

Use

Still Camera

DSC-RX10

Identifying parts

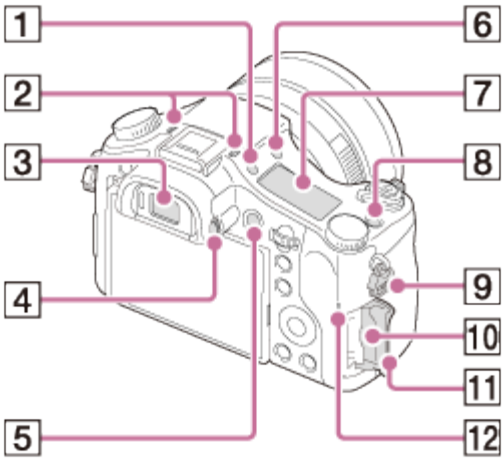


1. ON/OFF (Power) switch
2. Shutter button
3. For shooting: W/T (zoom) lever
   For viewing: (Index) lever/Playback zoom lever
4. Self-timer lamp/AF illuminator
5. Aperture index
6. Lens
7. Manual ring
8. Exposure compensation dial
9. Flash
10. Multi interface shoe*
11. Mode dial
12. Hook for shoulder strap
13. Focus mode dial
14. Aperture ring

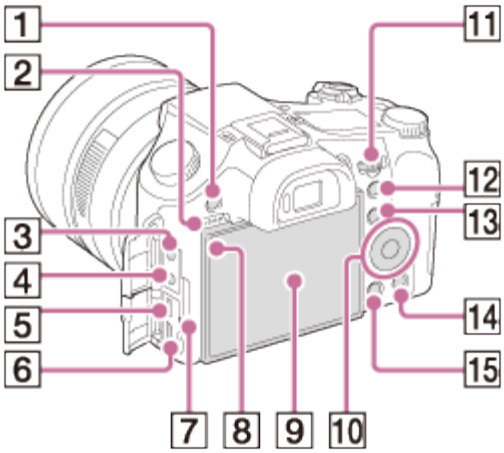
*For details on compatible accessories for the multi interface shoe, visit the Sony web site, or consult your Sony dealer or local authorized Sony service facility. You can also use accessories that are compatible with the accessory shoe. Operations with other manufacturers' accessories are not guaranteed.

Multi Interface Shoe

Accessory Shoe



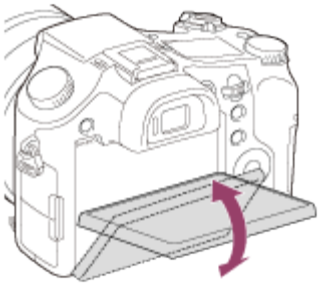
1. ☼ (Display panel illumination) button
2. Microphone
3. Viewfinder
4. Diopter-adjustment dial
5. MOVIE (Movie) button
6. ϟ (Flash pop-up) button
7. Display panel
8. C (Custom) button
9. Hook for shoulder strap
10. Memory card slot
11. Memory card cover
12. Access lamp



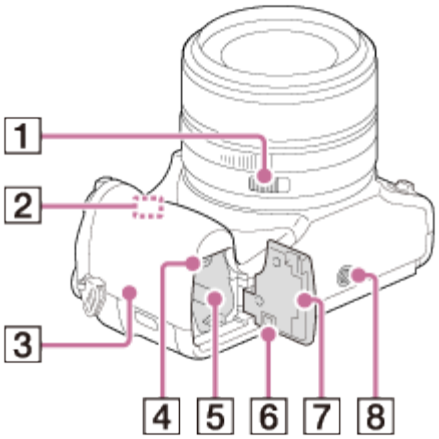
1. MENU button
2. Speaker
3. (Microphone) jack

- When an external microphone is connected, this product switches from the internal microphone to the external microphone. If the external microphone is a plug-in-power type, the power of the microphone is supplied by this product.

4. (Headphones) jack
5. Multi Terminal
   - Supports Micro USB compatible device.
6. HDMI micro jack
7. Charge lamp
8. Light sensor
9. LCD screen
   - You can adjust the screen to an easily viewable angle and shoot from any position.



10. Control wheel
11. Control dial
12. For shooting: AEL (AE lock) button
    For viewing: (Playback zoom) button
13. For shooting: Fn (Function) button
    For viewing: (Send to Smartphone) button
14. (Delete/In-Camera Guide) button
15. (Playback) button



1. Aperture Click Switch
2. Wi-Fi sensor

3. (N mark)
   - This mark indicates the touch point for connecting this product and an NFC-enabled smartphone.
   - NFC (Near Field Communication) is an international standard of the short-range wireless communication technology.
4. Battery eject lever
5. Battery insertion slot
6. Connection plate cover
   Use this when using an AC-PW20 AC Adaptor (sold separately). Insert the connection plate into the battery compartment, and then pass the cord through the connection plate cover as shown below.



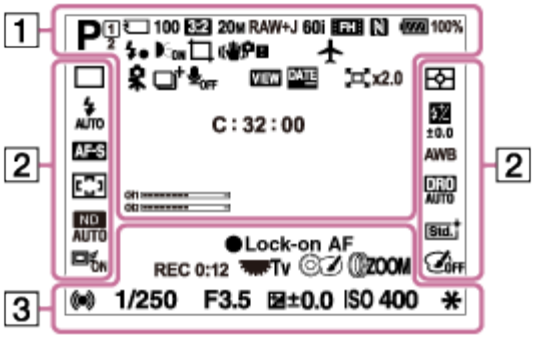
   - Make sure that the cord is not pinched when you close the cover.
7. Battery cover
8. Tripod socket hole
   - Use a tripod with a screw less than 5.5 mm (7/32 inches) long. Otherwise, you cannot firmly secure this product, and damage to the product may occur.

Notes on use
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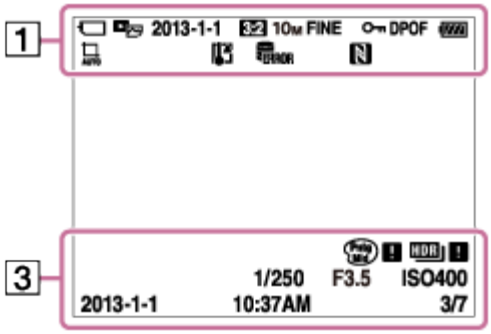
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Help Guide
Use
Still Camera
DSC-RX10

List of icons on the screen

List of shooting mode icons



List of viewing mode icons



1. iA iA+ P P* A S M iMovie iMovie P iMovie A iMovie S iMovie M
   Shooting mode

   1 2
   Memory number

   Memory card/Uploading status

   Scene Recognition icons

   Scene Selection

100

Remaining number

3:2 16:9 4:3 1:1

Aspect ratio of still images

20M / 18M / 17M / 13M / 10M / 7.5M / 6.5M / 5.0M / 4.2M / 3.7M / VGA

WIDE STD

Image size of still images

RAW RAW+J X.FINE FINE STD

Image quality of still images

60p 60i 50p 50i 24p 25p

Frame rate of movies

FX FH PS 1080 VGA

Recording settings of movies

NFC is activated

100%

Remaining battery

Remaining battery warning

Flash charge in progress

ON

AF Illuminator

SteadyShot

Camera-shake warning

Airplane Mode

Overlay icon

OFF

No audio recording of movies



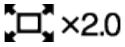
Wind Noise Reduction



Setting Effect OFF



Write Date



Smart teleconverter



Database file full/Database file error



Overheating warning



Smart Zoom



Clear Image Zoom



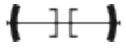
Digital Zoom



Spot metering area

C:32:00

Self-diagnosis display



Digital level gauge



Audio level



View Mode

100-0003

Folder - file number

AVCHD MP4

Recording format of movies

Protect

DPOF

DPOF set

Auto Object Framing

2.

Drive Mode

Metering mode

Flash mode/Red-eye reduction

±0.0

Flash compensation

AF-S **AF-C** **DMF** **MF**

Focus mode

7500K A5 G5

White balance

Focus area

D-Range Optimizer/Auto HDR

ND filter

Creative Style

Lock-on AF

Picture Effect



Smile detection sensitivity indicator

3. **Lock on AF**

Lock on AF guide

REC 0:12

Recording time of the movie (m:s)

Manual ring function

Control wheel function

Control dial function

Focus

1/250

Shutter speed

F3.5

Aperture value

±0.0

Metered Manual

±0.0

Exposure compensation

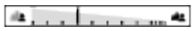
ISO400

ISO sensitivity

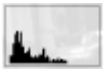
AE lock



Shutter speed indicator



Aperture indicator



Histogram



Picture Effect error



Auto HDR image warning

2013-1-1
10:37AM

Date of recording

3/7

File number/Number of images in the view mode

Notes on use

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Help Guide

Use

Still Camera

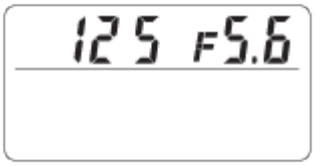
DSC-RX10

Display panel

You can set the shutter speed and aperture, exposure compensation, flash compensation, ISO, white balance, drive mode, and image quality, etc., using the display panel on top of the camera.



Shutter speed / Aperture



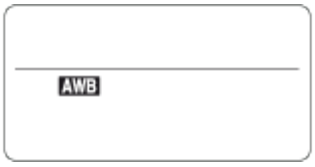
Exposure compensation / Flash compensation



ISO



White Balance



Drive Mode



Remaining battery



Number of recordable images*



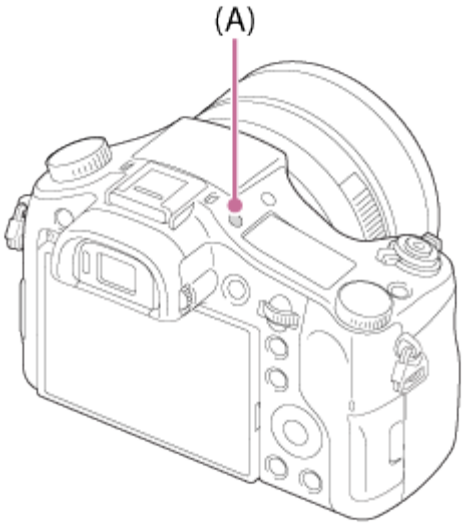
ND Filter



*Even if the number of recordable images is higher than 9,999 images, “9999” will appear on the display panel.

To turn on the display panel backlight

Press the illumination button (A) on top of the camera. If you press the button again, the display panel backlight will turn off.



Notes on use

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Use

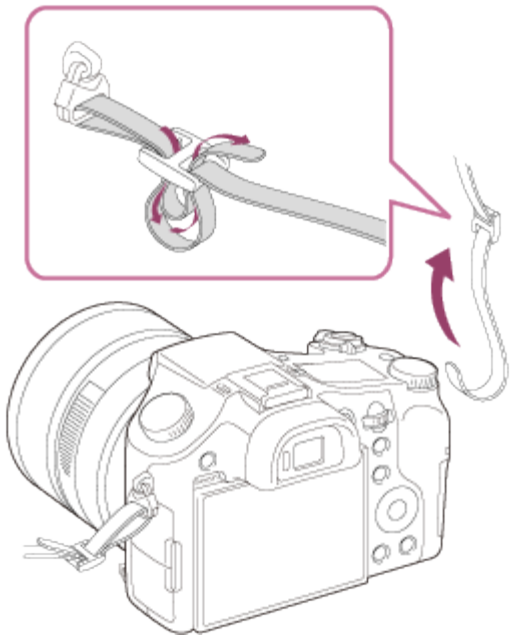
Still Camera

DSC-RX10

Using the shoulder strap

Attach the shoulder strap to prevent damage caused by dropping the product.

1. Attach both ends of the strap.



Notes on use

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Use

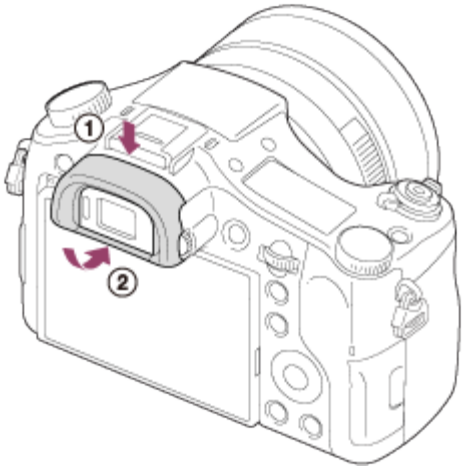
Still Camera

DSC-RX10

Attaching the eyepiece cup

It is recommended that you attach the eyepiece cup when you intend to use the viewfinder.

1. Touch the top of the eyepiece cup to the viewfinder, then push in the bottom of the eyepiece cup.
   - To remove the eyepiece cup, grasp it on the left and right sides and lift up.



Notes on use

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Use

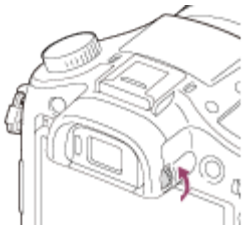
Still Camera

DSC-RX10

Adjusting the viewfinder (diopter-adjustment)

Adjust the diopter-adjustment dial to your eyesight until the display appears clearly in the viewfinder.

1. Turn the diopter-adjustment dial.



Notes on use

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Help Guide
Use
Still Camera
DSC-RX10

About the [In-Camera Guide]

The [In-Camera Guide] displays descriptions of MENU items, Fn (Function) button, and settings, and if a function cannot be set, the reason why.

1. Press the MENU or Fn button.
2. Select the desired MENU item using up/down/left/right side on the control wheel.
3. Press the (Delete) button.
   The operation guide for the MENU item you have selected in step 2 is displayed.
   - If you press the ● on the center of the control wheel after selecting an item shown in gray, the reason the item cannot be set is displayed.

Notes on use
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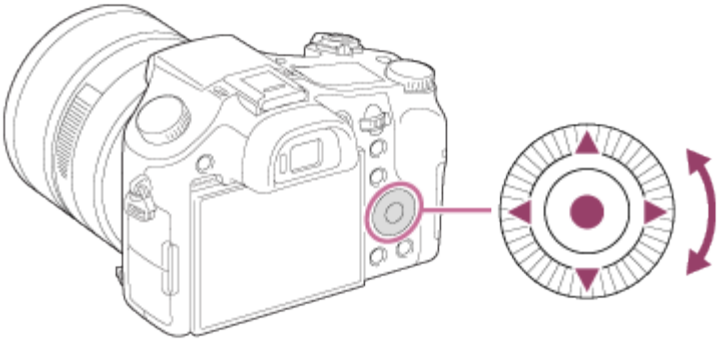
Help Guide

Use

Still Camera

DSC-RX10

Using the control wheel



When you turn or press the top/bottom/right/left side of the control wheel, you can select setting items. Your selection is determined when you press ● on the center of the control wheel.

The DISP (Display Setting) is assigned to the top side of the control wheel. You can assign selected functions to the left/right/bottom side of the control wheel or to ● in the center, and to the rotation of the control wheel.

During playback, you can display the next/previous image by pressing the right/left side of the control wheel or by turning the control wheel.

Related Topic

- Function of the center button
- Function of the left button
- Function of the right button
- Function of the down button
- Function of the control wheel

Notes on use

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Help Guide

Use

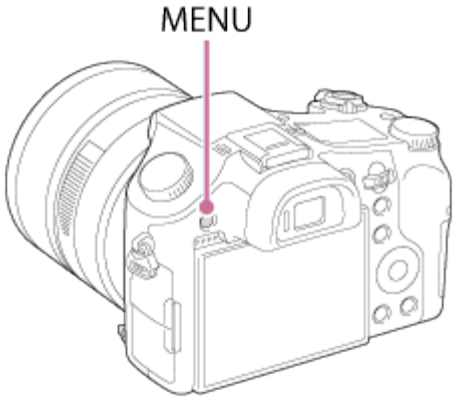
Still Camera

DSC-RX10

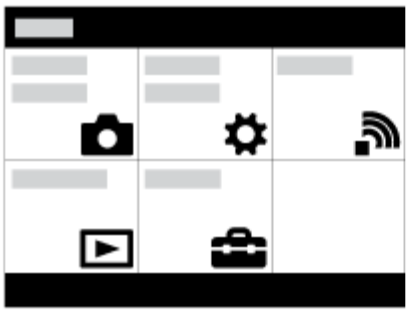
Using MENU items

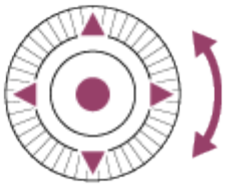
In this section, you learn how to change settings related to all camera operations and execute camera functions including shooting, playback, and operation methods.

1. Press MENU button to display the Menu screen.



2. Select the desired MENU item using the up/down/left/right side of the control wheel or by turning the control wheel, and then press ● in the center of the control wheel.
   - The display may move directly from step 1 to step 3 depending on the [Tile Menu] setting.





3. Select the desired setting item by pressing the up/down/left/right side on the control wheel or by turning the control wheel, and then press ● on the center of the control wheel. Select an icon at the top of the screen and press the left/right side of the control wheel to move to another MENU item.



4. Select the desired setting value, and press ● to confirm.

Related Topic

- Tile Menu

Notes on use

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Help Guide

Use

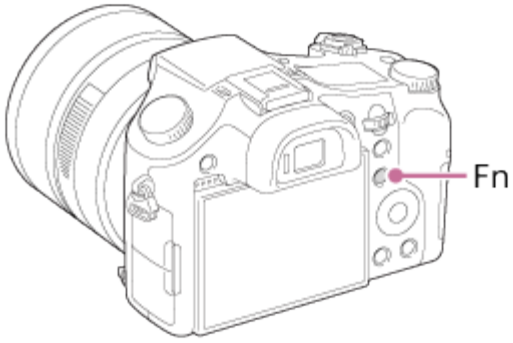
Still Camera

DSC-RX10

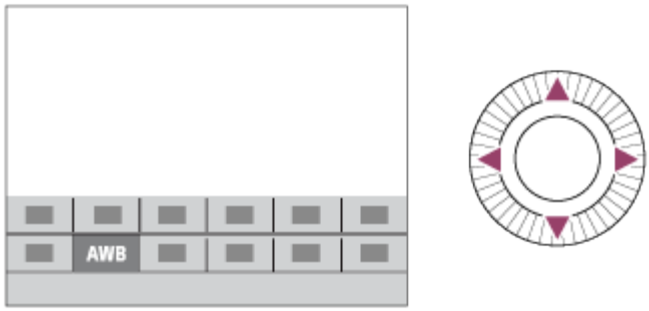
Using the Fn (Function) button

You can recall functions when shooting images. Up to 12 frequently used functions can be registered to the Fn (Function) button.

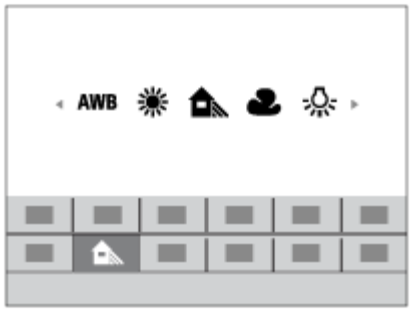
1. Press the Fn (Function) button in shooting mode.



2. Select a function to be registered by pressing the up/down/left/right side of the control wheel.

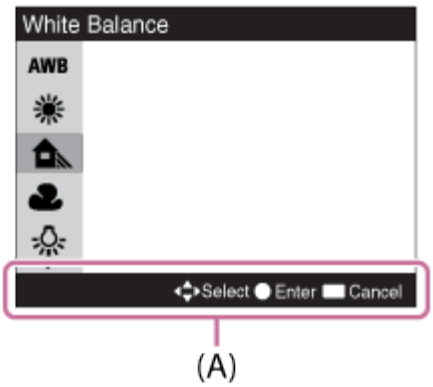


3. Set the desired setting by turning the control wheel.
   - Some functions can be fine-tuned using the control dial.



Performing settings on the dedicated screen

- Select the desired function in step 2, then press ● on the center of the control wheel. The dedicated setting screen for the function appears. Follow the operating guides (A) to perform the settings.



Related Topic

- Function Menu Set.

Notes on use

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Help Guide

Use

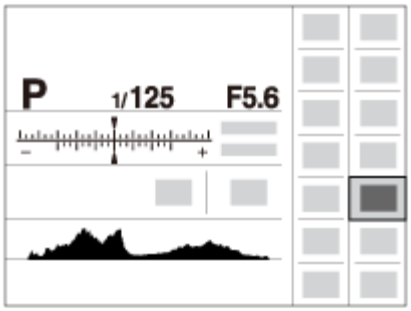
Still Camera

DSC-RX10

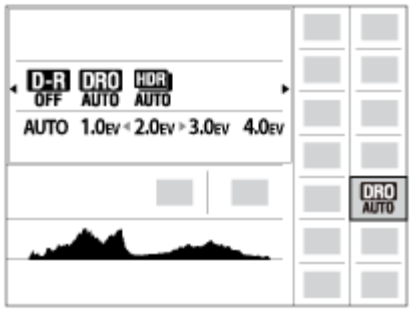
Using the “Quick Navi”

You can change the settings directly using the Quick Navi screen when using the viewfinder.

1. Press the DISP (Display Setting) button on the control wheel repeatedly until the screen is set to [For viewfinder].
2. Press Fn (Function) button to switch the screen to Quick Navi screen.

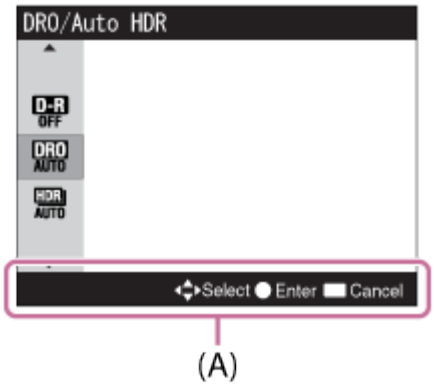


3. Select the desired function by pressing the up/down/left/right side of the control wheel.
4. Turn the control wheel to select the desired setting.



Performing settings on the dedicated screen

- Select the desired function in step 3, then press ● on the center of the control wheel. The dedicated setting screen for the function appears. Follow the operating guides (A) to perform the settings.



Related Topic

- Switching the screen display (Shooting)

Notes on use

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Help Guide

Use

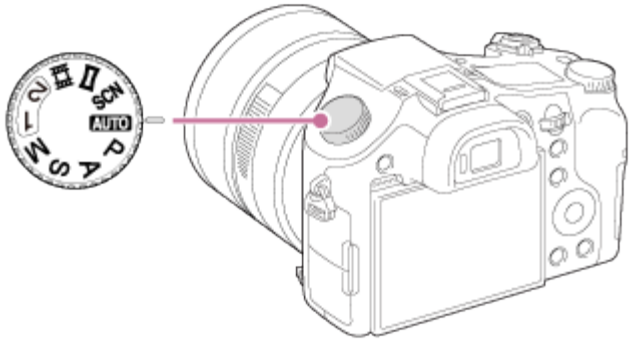
Still Camera

DSC-RX10

Shooting still images

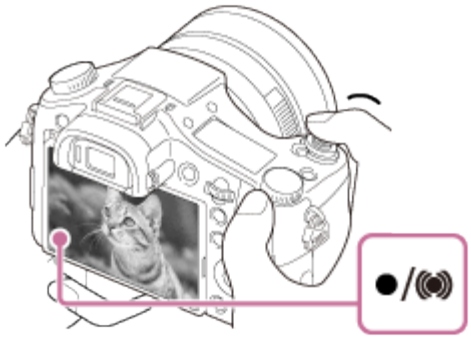
Shoots still images.

1. Set the shooting mode to (Intelligent Auto).



2. Adjust the monitor angle, and hold the camera. Or look through the viewfinder and hold the camera.

3. Press the shutter button halfway down to focus.
When the image is in focus, a beep sounds and the indicator (● or) lights.



- The shortest shooting distance is approximately 3 cm (1.2 inches) (W), 30 cm (0.99 ft) (T) (from the lens).

4. Press the shutter button fully down.

Focus indicator

● lights:
Image is in the focus.
lights:

Image is in the focus. The focused position will change to suit the motion of the subject.

(( )) lights:

The focusing is in progress.

● flashes:

The focusing has failed.

Hint

- When the product cannot focus automatically, the focus indicator flashes and the beep does not sound. Either recompose the shot or change the focus setting.
- Focusing may be difficult in the following situations:
  - It is dark and the subject is distant.
  - The contrast between the subject and the background is poor.
  - The subject is seen through glass.
  - The subject is moving quickly.
  - There is reflective light or shiny surfaces.
  - There is a flashing light.
  - The subject is backlit.

Related Topic

- Zoom
- Playing back images
- Intelligent Auto

Notes on use

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Use

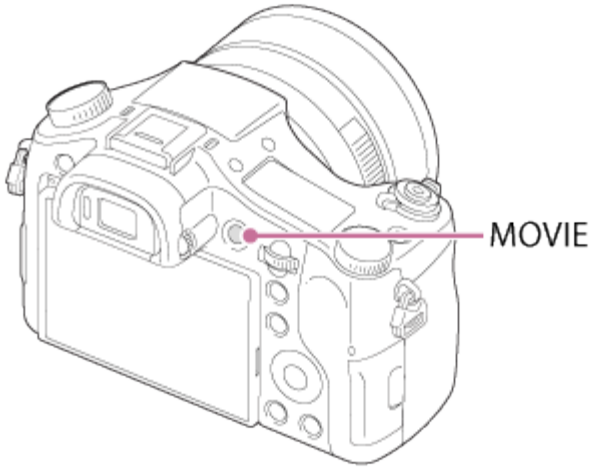
Still Camera

DSC-RX10

Shooting movies

You can record movies by pressing the MOVIE button.

1. Press the MOVIE button to start recording.



   To adjust the shutter speed and aperture value to the desired settings, set the shooting mode to (Movie).

2. Press the MOVIE button again to stop recording.

Note

- If you use a function such as zoom while shooting a movie, the noise of the product operating will be recorded. The sound of the MOVIE button operating may also be recorded when you press the MOVIE button to stop recording.
- Continuous shooting is possible for approximately 29 minutes at one time at the product's default settings and when the temperature is approximately 25°C (77°F). When movie recording is finished, you can restart recording by pressing the MOVIE button again. Recording may stop to protect the product depending on the ambient temperature.

Related Topic

Zoom
Movie
File Format (movie)

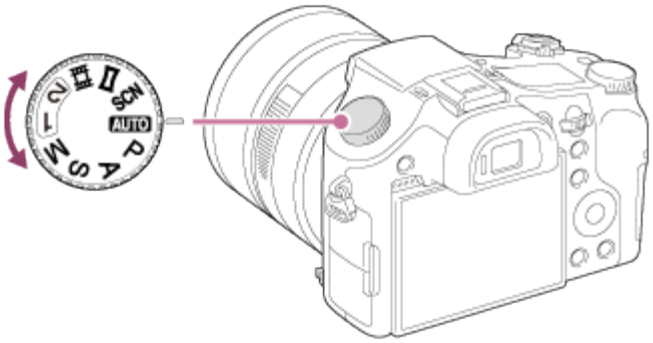
Notes on use

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Help Guide
Use
Still Camera
DSC-RX10

List of mode dial functions

You can select the desired shooting mode by turning the mode dial.



Available functions

AUTO (Auto Mode):
Allows you to shoot still images of any subject under any condition with good results by setting the values determined appropriate by the product.

P (Program Auto):
Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value (F value)). Also you can select various settings using the menu.

A (Aperture Priority):
Allows you to adjust the aperture and shoot when you want to blur the background, etc.

S (Shutter Priority):
Allows you to shoot fast-moving subjects etc., by manually adjusting the shutter speed.

M (Manual Exposure):
Allows you to shoot still images with the desired exposure by adjusting the shutter speed and the aperture value.

1 / 2 (Memory recall):
Allows you to shoot an image after recalling often-used modes or numeric settings registered in advance.

(Movie):
Allows you to change the setting for movie recording.

(Sweep Panorama):
Allows you to shoot a panoramic image after composing the image.

SCN (Scene Selection):
Allows you to shoot with preset settings according to the scene.

Related Topic

- Intelligent Auto
- Superior Auto
- Program Auto
- Aperture Priority
- Shutter Priority
- Manual Exposure
- Memory recall
- Movie
- Sweep Panorama
- Scene Selection

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Intelligent Auto

The product analyzes the subject, and allows you to shoot with appropriate settings.

1. Set the mode dial to AUTO (Auto Mode).
2. MENU → (Camera Settings) → [Auto Mode] →[Intelligent Auto].
   - When [Mode Dial Guide] is set to [On], you can select the desired settings after you have changed the position of the mode dial.
3. Point the camera to the subject.
   When the camera recognized the scene, the icon for the recognized scene appears on the screen.



4. Adjust the focus and shoot the image.

Note

- The product will not recognize the scene when you shoot images with zoom functions other than optical zoom.
- The product may not properly recognize these scenes under some shooting conditions.

Related Topic

- About Scene Recognition
- Mode Dial Guide

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Help Guide

Use

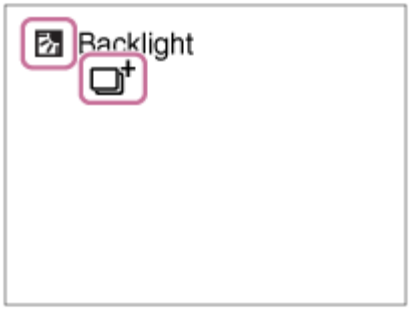
Still Camera

DSC-RX10

Superior Auto

The product automatically recognizes and evaluates the shooting conditions, and the appropriate settings are set automatically.
The product may shoot multiple images and create a composite image, etc., using more shooting settings than in Intelligent Auto mode to record higher quality images.

1. Set the mode dial to AUTO (Auto Mode).
2. MENU → (Camera Settings) → [Auto Mode] → [Superior Auto].
   - When [Mode Dial Guide] is set to [On], you can select the desired settings after you have changed the position of the mode dial.
3. Point the camera to the subject.
   When the camera recognizes a scene, the scene recognition icon appears on the screen. If necessary, (overlay icon) may appear.



4. Adjust the focus and shoot the image.

Note

- When the product is used to create composite images, the recording process takes longer than usual.
- The product will not recognize the scene when you use zoom functions other than optical zoom.
- The product may not properly recognize a scene under some shooting conditions.
- When [Quality] is set to [RAW] or [RAW & JPEG], the product cannot create a composite image.

Related Topic

Mode Dial Guide

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

About Scene Recognition

Scene Recognition operates in [Intelligent Auto] mode and [Superior Auto] mode.
This function allows the product to automatically recognize the shooting conditions and shoot the image.

Scene Recognition:

If the product recognizes a scene, icons and guides such as (Portrait), (Infant), (Night Portrait), (Night Scene), (Backlight Portrait), (Backlight), (Landscape), (Macro), (Spotlight), or (Low Light) are displayed on the first line. If the product recognizes a condition, (Tripod) is displayed on the second line.

Note

- When [Smile/Face Detect.] is set to [Off], the [Portrait], [Backlight Portrait], [Night Portrait], and [Infant] scenes are not recognized.

Related Topic

- Intelligent Auto
- Superior Auto

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

The advantages of automatic shooting

In [Superior Auto] mode, the product shoots with higher quality than [Intelligent Auto] mode and performs composite shooting as necessary.
In [Program Auto] mode, you can shoot after adjusting various functions, such as white balance, ISO, etc.

(Intelligent Auto):
Select this mode when you want the camera automatically recognize the scene.
(Superior Auto):
Select this mode to shoot scenes under difficult circumstances, such as when it is dark or the subjects are back-lit. Select this mode to shoot a higher quality image than that provided by (Intelligent Auto).
P (Program Auto):
Select this mode to shoot with various functions other than the exposure (shutter speed and aperture) adjusted.

Note

- In [Intelligent Auto] mode, you may not be able to shoot dark scenes or back-lit subjects clearly.
- In [Superior Auto] mode, the recording process takes longer, since the product creates a composite image.

Related Topic

- Intelligent Auto
- Superior Auto
- Program Auto

Notes on use
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Help Guide
Use
Still Camera
DSC-RX10

Program Auto

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).
You can set shooting functions such as [ISO], [Creative Style] and [D-Range Opt.].

1. Set the mode dial to P (Program Auto).
2. Set the shooting functions to your desired settings.
3. Adjust the focus and shoot the subject.

Program Shift

You can change the shutter speed and aperture (F-value) combination by rotating the control dial, without changing the appropriate exposure that is set by this product. This function is available when you do not use the flash.

- “P” on the screen changes to “P*” when you turn the control dial.
- To cancel program shift, turn the control dial to return the indication to “P”.

Note

- According to the brightness of the environment, the program shift may not be used.
- Set the shooting mode to another one than “P” or turn off the power to cancel the setting you made.
- When the brightness changes, the aperture (F value) and shutter speed also change while maintaining the shift amount.

Notes on use
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Help Guide

Use

Still Camera

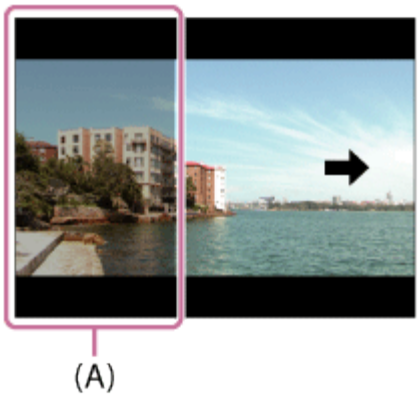
DSC-RX10

Sweep Panorama

Allows you to create a single panoramic image from multiple images shot while panning the camera.

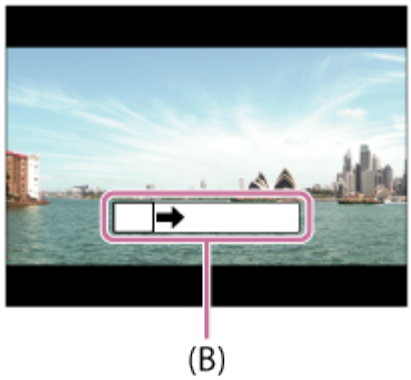


1. Set the mode dial to (Sweep Panorama).
2. Point the camera at the subject for which you want to set the focus and brightness.
3. While pressing the shutter button halfway down, aim the camera at one end of the desired panoramic composition.



(A) This part will not be shot.

4. Press the shutter button fully down.
5. Pan the camera to the end of the guide in the direction of the arrow on the monitor.



(B) Guidance bar

Note

- If the entire angle of the panoramic shot is not achieved within the set time, a gray area occurs in the composite image. If this happens, move the product faster to record the full panoramic image.
- When [Wide] is selected for [Panorama: Size], the entire angle of the panoramic shot may not be achieved within the given time. If this happens, try shooting after changing [Panorama: Size] to [Standard].
- While shooting Sweep Panorama, burst shooting mode is set and the sound of the shutter will be emitted continuously until shooting ends.
- Since several images are stitched together, the stitched part may not be recorded smoothly in some cases.
- The images may be blurred in dark scenes.
- When a light source such as a fluorescent light flickers, the brightness and color of a stitched image may not be consistent.
- When the whole angle of panoramic shooting and the AE/AF locked angle are very different in brightness and focus, the shooting may not be successful. If this happens, change AE/AF locked angle and shoot again.
- The following situations are not suited for shooting Sweep Panorama:
  - Moving subjects.
  - Subjects that are too close to the product.
  - Subjects with continuously similar patterns, such as the sky, beach, or a lawn.
  - Subjects with constant change such as waves or water falls.
  - Subjects with brightness widely different from its surroundings such as the sun or a light bulb.
- The Sweep Panorama shooting may be interrupted in the following situations.
  - When the camera is panned too fast or too slow.
  - The subject is too blurry.

Hint

- You can turn the control dial on the shooting screen to select the shooting direction.

Related Topic

- Panorama: Size
- Panorama: Direction

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Help Guide

Use

Still Camera

DSC-RX10

Scene Selection

Allows you to shoot with preset settings according to the scene.

1. Set the mode dial to SCN (Scene Selection).
2. MENU → (Camera Settings) → [Scene Selection] → desired mode.
   - When [Mode Dial Guide] is set to [On], you can select the desired settings after you have changed the position of the mode dial.

Menu item details

Portrait:

Blurs background and sharpens the subject. Accentuates the skin tones softly.



Sports Action:

Shoots a moving subject at a fast shutter speed so that the subject looks as if it is standing still. The product shoots images continuously while the shutter button is pressed.



Macro:

Shoots close-ups of the subjects, such as flowers, insects, food, or small items.



Landscape:

Shoots the entire range of a scenery in sharp focus with vivid colors.



Sunset:

Shoots the red of the sunset beautifully.



Night Scene:

Shoots night scenes without losing the dark atmosphere.



Hand-held Twilight:

Shoots night scenes with less noise and blur without using a tripod. A burst of shots are taken, and image processing is applied to reduce subject blur, camera-shake, and noise.



Night Portrait:

Shoots night scene portraits using the flash.



Anti Motion Blur:

Allows you to shoot indoor shots without using the flash and reduces subject blur. The product shoots burst images and combines them to create the image, reducing subject blur and noise.



Note

- In the [Hand-held Twilight] or [Anti Motion Blur] mode, the shutter clicks 4 times and an image is recorded.
- If you select [Hand-held Twilight] or [Anti Motion Blur] with [RAW] or [RAW & JPEG], the image quality becomes [Fine] temporarily.
- Reducing blur is less effective even in [Hand-held Twilight] or [Anti Motion Blur] when shooting the following subjects:
  - Subjects with erratic movement.
  - Subjects that are too close to the product.
  - Subjects with continuously similar patterns, such as the sky, a beach, or a lawn.
  - Subjects with constant change such as waves or water falls.
- In the case of [Hand-held Twilight] or [Anti Motion Blur], block noise may occur when using a light source that flickers, such as fluorescent lighting.
- The minimum distance that you can come close to a subject does not change even if you select [Macro]. For the minimum in-focus range, refer to the minimum distance of the lens attached to the product.

Hint

- To change the scene, rotate the control dial on the shooting screen and select a new scene.

Related Topic

Mode Dial Guide

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Use

Still Camera

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Shutter Priority

You can express the movement of a moving subject in various ways by adjusting the shutter speed, for example, at the instant of the movement with high speed shutter, or as a trailing image with low speed shutter.

1. Set the mode dial to S (Shutter Priority).
2. Select the desired value by turning the control dial.
3. Adjust the focus and shoot the subject.
   The aperture is automatically adjusted to obtain proper exposure.

Note

- If proper exposure cannot be obtained after setup, the aperture value on the shooting screen blinks. Although you can shoot as it is, resetting is recommended.
- Use a tripod to prevent blurring when you use a slow shutter speed.
- The / (SteadyShot warning) indicator does not appear in shutter speed priority mode.
- When the shutter speed is 1/3 second(s) or longer, noise reduction will be done after shooting for the same amount of time that the shutter was open. However, you cannot shoot any more while noise reduction is in progress.
- The brightness of the image on the monitor may differ from the actual image being shot.

Hint

- When a faster shutter speed is used, moving subjects, such as a running person, cars, or sea spray appear as if they are stopped. When a slower shutter speed is used, a trailing image of the movement of the subject is captured to create a more natural and dynamic image.

Related Topic

- Long Exposure NR (still image)

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Use

Still Camera

DSC-RX10

Aperture Priority

You can shoot by adjusting the aperture and changing the range in focus, or by defocusing the background.

1. Set the mode dial to A (Aperture Priority).
2. Select the desired value by turning the aperture ring.
   - Smaller F-value: The subject is in focus, but objects in front of and beyond the subject are blurred.
     Larger F-value: The subject and its foreground and background are all in focus.
3. Adjust the focus and shoot the subject.
   The shutter speed is automatically adjusted to obtain proper exposure.

Note

- If proper exposure cannot be obtained after setup, the shutter speed on the shooting screen blinks. Although you can shoot as it is, resetting is recommended.
- The brightness of the image on the screen may differ from the actual image being shot.
- We recommend that you set the aperture value to between F2.8 and F8 if you want to shoot images with high resolution. Image quality may deteriorate due to the diffraction phenomenon.

Hint

- Smaller F-value (opening the aperture) narrows the range that is in focus. This allows you to put the subject in sharp focus and blur objects in front of and beyond the subject (depth of field becomes shallower). Larger F-value (narrowing down the aperture) widens the range that is in focus. This allows you to shoot the depth of the scenery (depth of field becomes deeper).
- You can change the click texture of the aperture ring using the Aperture Click Switch. When shooting still images, set the Aperture Click Switch to “ON,” and for movies, set it to “OFF.”

Notes on use

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Manual Exposure

You can shoot with the desired exposure setting by adjusting both the shutter speed and aperture.

1. Set the mode dial to M (Manual Exposure).
2. Select the desired aperture value by turning the aperture ring.
   Select the desired shutter speed by turning the control dial.
   When [ISO] is set to other than [ISO AUTO], use MM (Metered Manual) to check the exposure value.
   Toward +: Images become brighter.
   Toward – : Images become darker.
   0: Appropriate exposure analyzed by the product
3. Adjust the focus and shoot the subject.

Note

- When [ISO] is set to [ISO AUTO], the ISO value automatically changes to achieve the appropriate exposure using the aperture value and shutter speed you have set. If the aperture value and shutter speed you have set are not suitable for appropriate exposure, the ISO value indicator will blink.
- The Metered Manual indicator does not appear when [ISO] is set to [ISO AUTO].
- When the amount of ambient light exceeds the metering range of the Metered Manual, the Metered Manual indicator flashes.
- The / (SteadyShot warning) indicator does not appear in manual exposure mode.
- The brightness of the image on the monitor may differ from the actual image being shot.
- You cannot select [Auto] under [ND Filter].

Hint

- You can change the shutter speed and aperture (F-value) combination without changing the set exposure value by rotating the aperture ring while pressing the AEL button. (Manual shift)

Notes on use

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Still Camera
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BULB

You can shoot a trailing image of the movement of a subject with long exposure.
BULB is suitable for shooting trails of light, such as fireworks.

1. Set the mode dial to M (Manual Exposure).
2. Turn the control dial clockwise until [BULB] is indicated.
3. Press the shutter button halfway down to adjust the focus.
4. Press and hold the shutter button for the duration of the shooting.
   As long as the shutter button is pressed, the shutter remains open.

Note

- Since the shutter speed becomes slow and the camera-shake tends to occur more easily, it is recommended that you use a tripod.
- The longer the exposure time, the more noise will be visible on the image.
- After shooting, noise reduction ([Long Exposure NR]) will be done for the same amount of time that the shutter was open. However, you cannot shoot any more while noise reduction is in progress.
- You cannot set the shutter speed to [BULB] in the following situations:
  - When the [Smile Shutter] function is activated.
  - When the [Auto HDR] function is activated.
  - When [Picture Effect] is set to [HDR Painting] or [Rich-tone Mono.].
  - When the [Multi Frame NR] function is activated.
  - When the [Drive Mode] function is set to [Cont. Shooting], [Spd Priority Cont.] or [Self-timer(Cont)].

  If you use the above functions when the shutter speed is set to [BULB], the shutter speed is temporarily set to 30 seconds.

Hint

- Images shot in [BULB] mode tend to blur. We recommend that you use a tripod or a multi-terminal-compatible remote commander that has a shutter button lock function (sold separately).

Related Topic

-

Manual Exposure

Notes on use

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Memory recall

Allows you to shoot an image after recalling often-used modes or camera settings registered in advance.

1. Set the mode dial to 1 or 2 (Memory recall).
2. Press ● on the center of the control wheel.

Note

- Register shooting settings in advance by [Memory].
- If you set [Memory recall] after completing the shooting settings, the registered settings are given priority and the original settings may become invalid. Check the indicators on the screen before shooting.

Related Topic

Memory

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Use
Still Camera
DSC-RX10

Movie

You can adjust the shutter speed or aperture value to your desired settings for recording movies. You can also check the image angle before shooting.

1. Set the mode dial to (Movie).
2. MENU → (Camera Settings) → [Movie] → desired setting.
   - When [Mode Dial Guide] is set to [On], you can select the desired settings after you have changed the position of the mode dial.

Menu item details

Program Auto:
Allows you to shoot with the exposure (both the shutter speed and the aperture value) adjusted automatically. The other settings can be adjusted manually.

Aperture Priority:
Allows you to shoot after adjusting the aperture value manually.

Shutter Priority:
Allows you to shoot after adjusting the shutter speed manually.

Manual Exposure:
Allows you to shoot after adjusting the exposure (both the shutter speed and the aperture value) manually.

Note

- When you adjust the aperture using the aperture ring while recording a movie, set the Aperture Click Switch to “OFF.” If you change the aperture value while shooting a movie with the Aperture Click Switch set to “ON,” the sound of the aperture ring will be recorded.

Related Topic

Mode Dial Guide

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Help Guide

Use

Still Camera

DSC-RX10

Zoom

Enlarge images using the W/T (zoom) lever when shooting.

1. Enlarge images with the W/T (zoom) lever when shooting.
   - Move the W/T (zoom) lever to the T side to zoom in and to the W side to zoom out.

Hint

- When you select other than [Optical zoom only] for [Zoom Setting], you can exceed the zoom range of the optical zoom to zoom images.
- When the [Focus Mode] function is set to [Single-shot AF] or [Continuous AF], you can zoom images by rotating the manual ring.

Related Topic

- Zoom Setting
- The zoom features available with this product

Notes on use

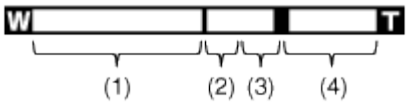
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DSC-RX10

The zoom features available with this product

The zoom feature of the product provides a higher magnification zoom by combining various zoom features. The icon displayed on the screen changes, according to the selected zoom feature.



(1) Optical zoom range
Images are magnified within the optical zoom range of this product.
(2) Smart Zoom range ( )
Zoom images without causing the original quality to deteriorate by partially cropping an image (only when the image size is [M] or [S]).
(3) Clear Image Zoom range ( )
Zoom images using an image process with less deterioration. Set [Zoom Setting] to [On:ClearImage Zoom] or [On Digital Zoom] first.
(4) Digital Zoom range ( )
You can magnify images using an image process. When you select [On Digital Zoom] for [Zoom Setting], you can use this zoom function.

Note

- The default setting for the [Zoom Setting] is [Optical zoom only].
- The default setting for [Image Size] is [L]. To use the smart zoom change [Image Size] to [M] or [S].
- Zoom functions other than the optical zoom are not available when shooting in the following situations:
  - [Smile/Face Detect.] is set to [Smile Shutter]
  - [Quality] is set to [RAW] or [RAW & JPEG]
- You cannot use the Smart Zoom function with movies.
- When you use a zoom function other than the optical zoom, the [Focus Area] setting is disabled. The AF operates with priority on and around the center area. Also, [Metering Mode] is fixed to [Multi].

Related Topic

- Zoom
- Zoom Setting
- About zoom scale

Notes on use

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DSC-RX10

Zoom Setting

You can select the zoom setting of the product.

1. MENU → (Custom Settings) → [Zoom Setting] → desired setting.

Menu item details

Optical zoom only (default setting):
Optical zoom is activated. You can use the Smart Zoom function if you set [Image Size] to [M] or [S].
On:Clear Image Zoom:
Even if the zoom range of the optical zoom is exceeded, the product magnifies images within the range in which image quality does not deteriorate significantly.
On Digital Zoom:
When the zoom range of the [Clear Image Zoom] is exceeded, the product magnifies images to the largest scale. However, the image quality will deteriorate.

Note

- Set [Optical zoom only] if you want to magnify images within the range in which image quality does not deteriorate.

Related Topic

- The zoom features available with this product
- About zoom scale

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Use

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DSC-RX10

About zoom scale

The zoom scale that is used in combination with optical zoom 8.3x changes according to the selected image size. Optical zoom 8.3x is equivalent to 35 mm-format focal length 24 mm-200 mm.

[Zoom Setting]: [Optical zoom only]

[Image Size]: M Approx. 1.4×, S Approx. 2×

[Zoom Setting]: [On:Clear Image Zoom]

[Image Size]: L Approx. 2×, M Approx. 2.8×, S Approx. 4×

[Zoom Setting]: [On Digital Zoom]

[Image Size]: L Approx. 4×, M Approx. 5.6×, S Approx. 8×

Related Topic

- Zoom
- The zoom features available with this product
- Image Size (still image)

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Smart Telecon.

Smart Teleconverter magnifies and trims the center of the image, then records it.

1. MENU → (Custom Settings) → [Custom Key Settings] → assign the [Smart Telecon.] function to the desired key.
2. Magnify an image by pressing the key to which you have assigned [Smart Telecon.]. The settings change each time you press the key.

Notes on use

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DSC-RX10

Zoom Func. on Ring

Sets the zoom functions when using the manual ring to change zoom scales. The settings for [Zoom Func. on Ring] are valid only when auto-focusing.

1. MENU → (Custom Settings) → [Zoom Func. on Ring] → desired setting.

Menu item details

Standard (default setting):

Zooms in/out smoothly when you operate the zoom by turning the manual ring.

Step:

Zooms in/out at certain angle steps when you operate the zoom by turning the manual ring.

Note

- In the following situations, the zoom function activates as if [Zoom Func. on Ring] is set to [Standard], even if it is set to [Step].
  - When using the W/T (zoom) lever to change the zoom scale.
  - When recording movies.
  - When using zoom functions other than the optical zoom.

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Use

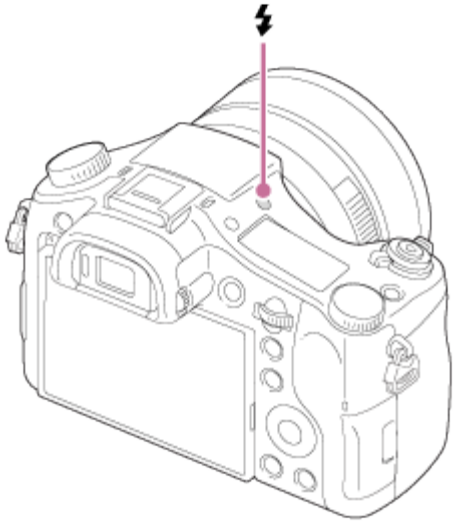
Still Camera

DSC-RX10

Using flash

In dark environments, use the flash to light up the subject while shooting and to prevent camera-shake. When shooting against the sun, use the flash to lighten the image of the backlit subject.

1. Press the (Flash pop-up) button to pop up the flash.



2. Press the shutter button fully down.

Note

- When not using the flash, press it back into the camera body.
- You cannot use the flash when recording movies.
- While charging the flash, flashes. After charging is completed, the flashing icon will light up.
- When an external flash (sold separately) is attached to the Multi Interface Shoe, the state of the external flash has priority over the setting of the product. You cannot use the product's internal flash.
- Do not use a commercially available flash with high-voltage synchro terminals or with reverse polarity.

Related Topic

Flash Mode

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Flash Mode

You can set the flash mode.

1. MENU → (Camera Settings) → [Flash Mode] → desired setting.

Menu item details

Flash Off:

Flash does not operate.

Autoflash:

Fires in dark environments or when shooting towards bright light.

Fill-flash (default setting):

Fires every time you trigger the shutter.

Slow Sync.:

Fires every time you trigger the shutter. Slow sync shooting allows you to shoot a clear image of both the subject and the background by slowing the shutter speed.

Rear Sync.:

Fires right before the exposure is completed every time you trigger the shutter. Rear sync shooting allows you to shoot a natural image of the trail of a moving subject such as a moving car or a walking person.

Wireless:

When using a wireless flash, the shading effect provides a more 3D appearance to a subject than when using an attached flash. This mode is effective when you attach a remote control-compatible external flash (sold separately) to the product, and shoot with a wireless flash (sold separately), placed away from the product.

Note

- The default setting depends on the shooting mode.
- Available flash mode depends on the shooting mode.
- The [Wireless] setting cannot be used with the camera's internal flash.

Related Topic

Using flash

Notes on use

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DSC-RX10

Flash Comp.

Adjusts the amount of flash light in a range of –3.0 EV to +3.0 EV.
Flash compensation changes the amount of flash light only. Exposure compensation changes the amount of flash light along with the change of the shutter speed and aperture.

1. MENU → (Camera Settings) → [Flash Comp.] → desired setting.
   Selecting higher values (+ side) makes the flash level higher, and lower values (– side) makes the flash level lower.

Note

- The higher flash effect may not be visible due to the limited amount of flash light available, if the subject is outside the maximum range of the flash. If the subject is very close, the lower flash effect may not be visible.

Related Topic

Using flash

Notes on use
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Use

Still Camera

DSC-RX10

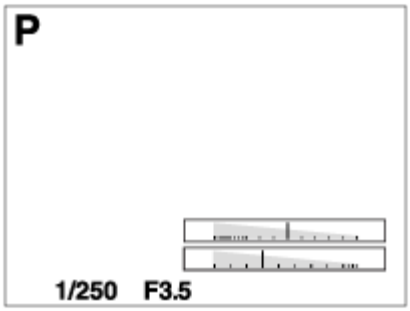
Switching the screen display (Shooting)

You can change the display contents on the screen.

1. Press the DISP (Display Setting) button.
   Each time you press the DISP button, the recording information display changes as follows:

   Graphic Display → Display All Info. → No Disp. Info. → Histogram → Level → For viewfinder* → Graphic Display

   Graphic Display



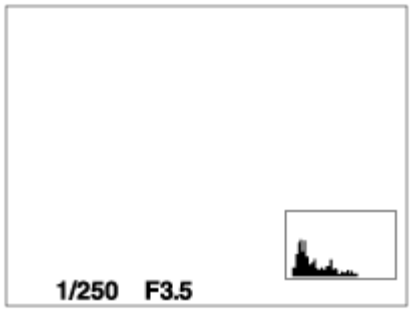
   Display All Info.



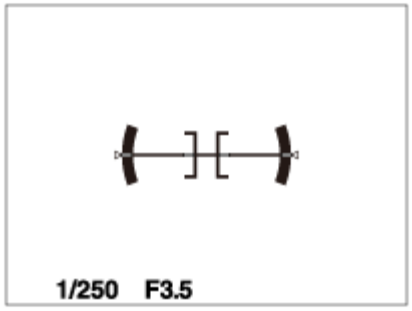
   No Disp. Info.



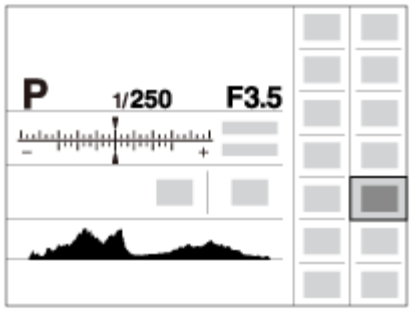
   Histogram



Level



For viewfinder*



* [For viewfinder] is not displayed in viewfinder mode.

Some display methods are not displayed in the default settings.
The displayed screen varies depending on the setting of [DISP Button].

Note

- Histogram is not displayed during panorama shooting.
- In movie mode, [For viewfinder] cannot be displayed.

Hint

- You can select different settings for both the viewfinder and the monitor. Look through the viewfinder to set the display settings for the viewfinder.

Related Topic

- DISP Button (Finder)
- DISP Button (Monitor)

Notes on use

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Use
Still Camera
DSC-RX10

DISP Button (Finder)

Allows you to set the screen display modes that can be selected for the viewfinder using DISP (Display Setting) in shooting mode.

1. MENU → (Custom Settings) → [DISP Button] → [Finder] → desired setting → [Enter].
   The items marked with ✓ are available.

Menu item details

Graphic Display:

Shows basic shooting information. Graphically shows the shutter speed and aperture value.

Display All Info.:

Shows recording information.

No Disp. Info.:

Does not show recording information.

Histogram:

Displays the luminance distribution graphically.

Level:

Indicates whether the product is level in both the horizontal and front-back directions. When the product is level in both directions, the indicator turns to green.

Related Topic

- Switching the screen display (Shooting)

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DISP Button (Monitor)

Allows you to set the screen display modes that can be selected for the monitor using DISP (Display Setting) in shooting mode.

1. MENU → (Custom Settings) → [DISP Button] → [Monitor] → desired setting → [Enter].
   The items marked with ✓ are available.

Menu item details

Graphic Display:

Shows basic shooting information. Graphically shows the shutter speed and aperture value.

Display All Info.:

Shows recording information.

No Disp. Info.:

Does not show recording information.

Histogram:

Displays the luminance distribution graphically.

Level:

Indicates whether the product is level in both the horizontal and front-back directions. When the product is level in both directions, the indicator turns to green.

For viewfinder:

Displays information suited for shooting with the viewfinder.

Related Topic

- Switching the screen display (Shooting)

Notes on use
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Image Size (still image)

The larger the image size, the more detail will be reproduced when the image is printed on large-format paper. The smaller the image size, the more images can be recorded.

1. MENU → (Camera Settings) → [Image Size] → desired setting.

Menu item details

- Image size when [Aspect Ratio] is 3:2
  - L: 20M 5472×3648 pixels
  - M: 10M 3888×2592 pixels
  - S: 5.0M 2736×1824 pixels
- Image size when [Aspect Ratio] is 16:9
  - L: 17M 5472×3080 pixels
  - M: 7.5M 3648×2056 pixels
  - S: 4.2M 2720×1528 pixels
- Image size when [Aspect Ratio] is 4:3
  - L: 18M 4864×3648 pixels
  - M: 10M 3648×2736 pixels
  - S: 5.0M 2592×1944 pixels
  - VGA 640×480 pixels
- Image size when [Aspect Ratio] is 1:1
  - L: 13M 3648×3648 pixels
  - M: 6.5M 2544×2544 pixels
  - S: 3.7M 1920×1920 pixels

Note

- When [Quality] is set to [RAW] or [RAW & JPEG], the image size for RAW images corresponds to [L].

Related Topic

Aspect Ratio (still image)

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Aspect Ratio (still image)

Sets the aspect ratio of still images.

1. MENU → (Camera Settings) → [Aspect Ratio] → desired setting.

Menu item details

3:2 (default setting):
Suitable for standard prints.

4:3:
Shoots in 4:3 aspect ratio.

16:9:
For viewing on a high-definition TV.

1:1:
For shooting in composition as a medium format camera/camcorder.

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Help Guide
Use
Still Camera
DSC-RX10

Quality (still image)

Selects the compression format of still images.

1. MENU → (Camera Settings) → [Quality] → desired setting.

Menu item details

RAW:
File format: RAW (Records using the RAW compression format.)
Digital processing is not performed on this file format. Select this format to process images on a computer for professional purposes.

- The image size is fixed to the maximum size. The image size is not displayed on the screen.

RAW & JPEG:
File format: RAW (Records using the RAW compression format.) + JPEG
A RAW image and a JPEG image are created at the same time. This is suitable when you need 2 image files, a JPEG for viewing, and a RAW for editing.

Extra fine:
File format: JPEG
The image is compressed in the JPEG format and recorded using a higher quality than with [Fine].

Fine (default setting):
File format: JPEG
The image is compressed in the JPEG format when recorded.

Standard:
File format: JPEG
The image is compressed in the JPEG format when recorded. Since the compression rate of [Standard] is higher than that of [Fine], the file size of [Standard] is smaller than that of [Fine]. This will allow more files to be recorded on 1 memory card, but the image quality will be lower.

Note

- If images are not to be modified using your computer, we recommend that you record images in JPEG format.
- You cannot add DPOF (print order) registration to RAW format images.

Notes on use

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Use
Still Camera
DSC-RX10

Panorama: Size

Sets the image size when shooting panoramic images. The image size varies depending on the [Panorama: Direction] setting.

1. MENU → (Camera Settings) → [Panorama: Size] → desired setting.

Menu item details

When [Panorama: Direction] is [Up] or [Down]
Standard: 3872×2160
Wide: 5536×2160

When [Panorama: Direction] is [Left] or [Right]
Standard: 8192×1856
Wide: 12416×1856

Related Topic

- Sweep Panorama
- Panorama: Direction

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Use
Still Camera
DSC-RX10

Panorama: Direction

Sets the direction to pan the camera when shooting panoramic images.

1. MENU → (Camera Settings) → [Panorama: Direction] → desired setting.

Menu item details

Right (default setting):
Pan the camera from the left to the right.
Left:
Pan the camera from the right to the left.
Up:
Pan the camera from the bottom to the top.
Down:
Pan the camera from the top to the bottom.

Related Topic

Sweep Panorama

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Use

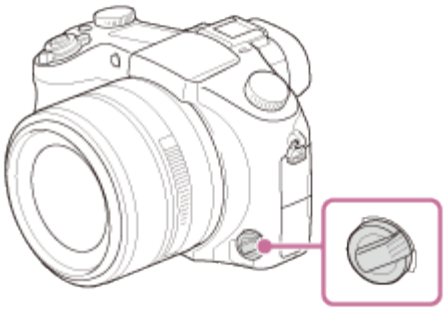
Still Camera

DSC-RX10

Changing the focus method using the focus mode dial

You can select the focusing method to suit the movement of the subject.

1. Turn the focus mode dial to select the desired focus method.



Focus mode details

AF-S (Single-shot AF) (default setting):
The camera focuses and the focus is locked when you press the shutter button halfway down. Use this mode when the subject is motionless.
AF-C (Continuous AF):
The camera continues to focus while the shutter button is pressed and held halfway down. Use this mode when the subject is in motion.
DMF (DMF):
After focusing automatically, make fine focus adjustment manually (Direct Manual Focus).
MF (Manual Focus):
Adjusts the focus manually.

Note

- If the subject is too close, the image may show any dust or fingerprints on the lens. Wipe the lens with a soft cloth, etc.
- Once you change the focus method, the set focus distance is erased.
- When [Focus Mode] is set to [Continuous AF], the beep does not sound when focus is achieved.

Hint

- If you cannot achieve focus for the intended subject using auto focus, select MF or DMF, then shoot again.

Related Topic

- Direct manual focus (DMF)
- Manual Focus
- MF Assist (still image)

Notes on use

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Use
Still Camera
DSC-RX10

Focus Area

Selects the focusing area. Use this function when it is difficult to get the proper focus in auto focus mode.

1. MENU → (Camera Settings) → [Focus Area] → desired setting.

Menu item details

Wide:
Focuses automatically on a subject in all ranges of the image.
When you press the shutter button halfway down in still image shooting mode, a green frame is displayed around the area that is in focus.

Center:
Focuses automatically on a subject in the center of the image. When used together with the AF lock function, you can compose the image you want.

Flexible Spot:
Allows you to move the AF range frame to the desired point on the screen and focus on an extremely small subject in a narrow area.

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Use

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DSC-RX10

Focus-lock

Shoots images with the focus locked on the desired subject in auto focus mode.

1. Select AF-S by rotating the focus mode dial.
2. Place the subject within the AF area and press the shutter button halfway down.
   The focus is locked.
3. Keep pressing the shutter button halfway down, and place the subject back in the original position to re-compose the shot.
4. Press the shutter button down fully to take the picture.

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Use

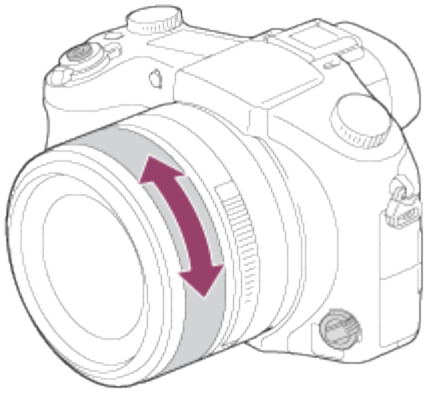
Still Camera

DSC-RX10

Manual Focus

When it is difficult to get the proper focus in autofocus mode, you can adjust the focus manually.

1. Rotate the focus mode dial to select MF.
2. Rotate the manual ring to achieve sharp focus.



- When you rotate the manual ring, the focus distance is displayed on the screen.

Related Topic

MF Assist (still image)

Focus Magnifier

Notes on use

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Use

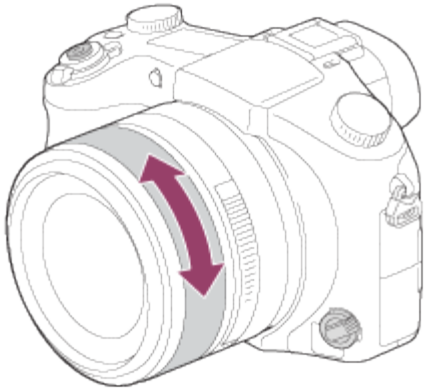
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DSC-RX10

Direct manual focus (DMF)

You can make fine adjustments manually after the focus is locked.
You can quickly focus on a subject rather than using the manual focus from the beginning. This is convenient in cases such as macro shooting.

1. Select DMF by rotating the focus mode dial.
2. Press the shutter button halfway down to focus automatically.
3. Keep the shutter button halfway down, rotate the manual ring to achieve a sharper focus.



- When you rotate the manual ring, the focus distance is displayed on the screen.

Notes on use

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Use
Still Camera
DSC-RX10

MF Assist (still image)

Enlarges the image on the screen automatically to make manual focusing easier. This works in Manual Focus or Direct Manual Focus shooting.

1. MENU → (Custom Settings) → [MF Assist] → [On].
2. Turn the focus ring to adjust the focus.
   The image is enlarged. You can magnify images further by pressing ● on the center of the control wheel.

Note

- You cannot use [MF Assist] when shooting movies.

Related Topic

- Manual Focus
- Direct manual focus (DMF)
- Focus Magnif. Time

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Use

Still Camera

DSC-RX10

Focus Magnifier

You can check the focus by enlarging the image before shooting.

1. MENU → (Camera Settings) → [Focus Magnifier].
2. Press ● on the center of the control wheel to enlarge the image and select the position you want to enlarge using up/down/left/right side of the control wheel.
3. Confirm the focus.
4. Press the shutter button fully down to shoot the image.

Hint

- Each time you press ● in the center, the magnifier scaling changes.
- When focusing manually, you can adjust the focus while an image is magnified.
- The [Focus Magnifier] function will be released when the shutter button is pressed halfway.
- You can record images while an image is enlarged, but the product records a full-display image.
- The [Focus Magnifier] function will be released after shooting.

Related Topic

MF Assist (still image)

Focus Magnif. Time

Notes on use

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Use
Still Camera
DSC-RX10

Focus Magnif. Time

Set the duration for which an image is to be magnified using the [MF Assist] or [Focus Magnifier] function.

1. MENU → (Custom Settings) → [Focus Magnif. Time] → desired setting.

Menu item details

2 Sec (default setting):

Magnifies the images for 2 seconds.

5 Sec:

Magnifies the images for 5 seconds.

No Limit:

Magnifies the images until you press the shutter button.

Related Topic

- MF Assist (still image)
- Focus Magnifier

Notes on use

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Use

Still Camera

DSC-RX10

Peaking Level

Enhances the outline of in-focus ranges using a specific color in Manual Focus or Direct Manual Focus shooting. This function allows you to confirm the focus easily.

1. MENU → (Custom Settings) → [Peaking Level] → desired setting.

Menu item details

High:

Sets the peaking level to high.

Mid:

Sets the peaking level to middle.

Low:

Sets the peaking level to low.

Off (default setting):

Does not use the peaking function.

Note

- Since the product determines that sharp areas are in focus, [Peaking Level] differs, depending on the subject and shooting situation.
- The outline of in-focus ranges is not enhanced when the product is connected using an HDMI cable.

Related Topic

- Manual Focus
- Direct manual focus (DMF)
- Peaking Color

Notes on use

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Use
Still Camera
DSC-RX10

Peaking Color

Sets the color used for the peaking function in Manual Focus or Direct Manual Focus shooting.

1. MENU → (Custom Settings) → [Peaking Color] → desired setting.

Menu item details

Red:
Enhances outlines in red.
Yellow:
Enhances outlines in yellow.
White (default setting):
Enhances outlines in white.

Related Topic

- Manual Focus
- Direct manual focus (DMF)
- Peaking Level

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Use
Still Camera
DSC-RX10

Lock-on AF

Set up the tracking function to continue focusing on the subject.

1. MENU → (Camera Settings) → [Lock-on AF] → desired setting.

Menu item details

Off:
Does not track a subject to be focused on.

On:
Tracks a subject to be focused on.

On (Start w/shutter):
Tracks a subject to be focused on when the shutter button is pressed halfway.

Note

- You can set [On (Start w/shutter)] only when [Continuous AF] is selected for [Focus Mode].

Related Topic

- Lock-on AF (On)

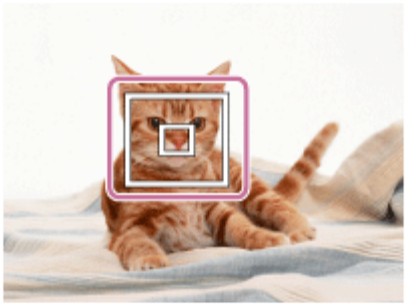
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Use
Still Camera
DSC-RX10

Lock-on AF (On)

Maintains the focus on a moving subject automatically.

1. MENU → (Camera Settings) → [Lock-on AF] → [On].
2. Align the target frame and the subject to be tracked, and press ● in the center.



Note

- The [Lock-on AF] function may not operate well in the following situations:
  - The subject is moving too quickly.
  - The subject is too small, or too large.
  - The contrast between the subject and the background is poor.
  - It is dark.
  - The ambient light changes.

Hint

- If you lose track of the subject, this product can detect the subject and resume the Lock-on AF function when the subject reappears on the screen.

Related Topic

- Lock-on AF

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Use
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DSC-RX10

Pre-AF (still image)

The product automatically adjusts focus before you press the shutter button halfway down.

1. MENU → (Custom Settings) → [Pre-AF] → desired setting.

Menu item details

On (default setting):

Adjusts focus before you press the shutter button halfway down.

Off:

Does not adjust focus before you press the shutter button halfway down.

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Use
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AF/MF control

You can easily switch the focusing mode from auto to manual and vice versa while shooting without changing your holding position.

1. MENU → (Custom Settings) → [Custom Key Settings] → button to be assigned → [AF/MF Control Hold] or [AF/MF Ctrl Toggle].

Menu item details

AF/MF Control Hold:

Switches the focusing mode while the button is held down.

AF/MF Ctrl Toggle:

Switches the focusing mode until the button is pressed again.

Note

- You cannot set the [AF/MF Control Hold] function to [Left Button], [Right Button] or [Down Button].

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Use
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AF Illuminator (still image)

The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. The red AF illuminator allows the product to focus easily when the shutter button is pressed halfway, until the focus is locked.

1. MENU → (Camera Settings) → [AF Illuminator] → desired setting.

Menu item details

Auto (default setting):
Uses the AF illuminator.

Off:
Does not use the AF illuminator.

Note

- Focus is achieved as long as the AF illuminator light reaches the subject, regardless of whether light fails to reach the center of the subject.
- You cannot use [AF Illuminator] in the following situations:
  - In movie mode
  - In [Sweep Panorama] mode
  - When [Focus Mode] is set to [Continuous AF]
  - When [Scene Selection] is set to [Landscape], [Sports Action] or [Night Scene].
- When [Focus Area] is set to [Wide], the AF range finder frame is indicated by a dotted line.
- The AF illuminator emits a very bright light. Although there is no health hazard, do not look directly into the AF illuminator at close range.

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Use

Still Camera

DSC-RX10

Eye AF

Focuses on a person’s eyes when you press the button.

1. MENU → (Custom Settings) → [Custom Key Settings] → assign the [Eye AF] function to the desired key.
2. Press the key to which you have assigned the [Eye AF] function and focus on the eyes.
3. Press the shutter button while pressing the key.

Note

- Depending on the circumstances, the camera may not be able to focus on the eyes. In such cases, the camera detects a face and focuses on the face.
- If the camera cannot detect a person’s face, you cannot use [Eye AF].
- Depending on the circumstances, you cannot use [Eye AF], such as when [Focus Mode] is set to [Continuous AF] or [Manual Focus], etc.
- [Eye AF] may not function in the following situations:
  - When the person is wearing sunglasses.
  - When the front hair covers the person’s eyes.
  - In low-light or back-lit conditions.
  - When the eyes are closed.
  - When the person is in the shade.
  - When the person is out of focus.

Hint

- When the camera focuses on the eyes and [Smile/Face Detect.] is set to [On], a detection frame is displayed on the face after it is displayed on the eyes. When [Smile/Face Detect.] is set to [Off], a detection frame is displayed on the eyes for a certain time.

Related Topic

- Custom Key Settings
- Smile/Face Detect.

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Use

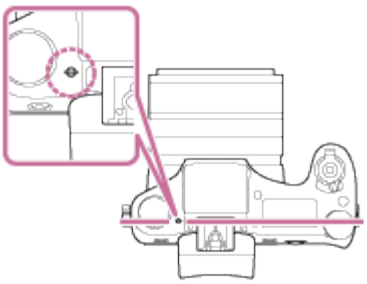
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DSC-RX10

Measuring the exact distance to the subject

The ⊖ mark shows the location of the image sensor*. When you measure the exact distance between the product and the subject, refer to the position of the horizontal line.

*The image sensor is the part that converts the light source to a digital signal.



Note

- If the subject is closer than the minimum shooting distance, the focus cannot be confirmed. Make sure you put enough distance between the subject and the product.

Notes on use

4-477-079-12(1)

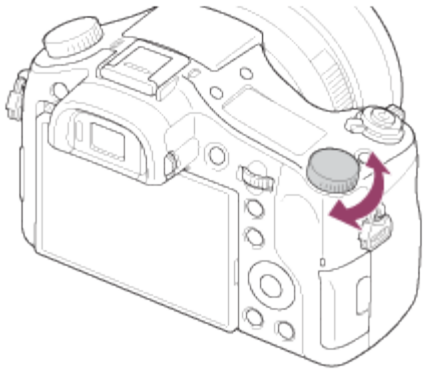
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Help Guide
Use
Still Camera
DSC-RX10

Exposure compensation dial

Based on the exposure value set by auto exposure, you can make the entire image brighter or darker if you adjust [Exposure Comp.] to the plus side or minus side, respectively (exposure compensation). Normally, exposure is set automatically (auto exposure).

1. Turn the exposure compensation dial.



Note

- You can adjust the exposure in a range of −2.0 EV to +2.0 EV for movies.
- If you shoot a subject in extremely bright or dark conditions, or when you use the flash, you may not be able to get a satisfactory effect.
- When you use [Manual Exposure], you can compensate for the exposure only when [ISO] is set to [ISO AUTO].

Related Topic

- Exp.comp.set

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Use
Still Camera
DSC-RX10

Metering Mode

Selects the metering mode that sets which part of the screen to measure for determining the exposure.

1. MENU → (Camera Settings) → [Metering Mode] → desired setting.

Menu item details

Multi (default setting):
Measures light on each area after dividing the total area into multiple areas and determines the proper exposure of the entire screen (Multi-pattern metering).

Center:
Measures the average brightness of the entire screen, while emphasizing the central area of the screen (Center-weighted metering).

Spot:
Measures only the central area (Spot metering). This function is useful when the subject is backlit or when there is strong contrast between the subject and the background.

Note

- [Multi] is selected when using the following functions:
  - [Intelligent Auto]
  - [Superior Auto]
  - [Scene Selection]
  - Zoom functions other than optical zoom

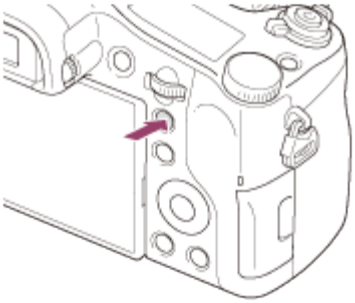
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Use
Still Camera
DSC-RX10

AE lock

When the contrast between the subject and background is high, such as when shooting a backlit subject or a subject near a window, meter the light at a spot where the subject appears to have the appropriate brightness and lock the exposure before shooting. To reduce the brightness of the subject, meter the light at a spot brighter than the subject and lock the exposure of the entire screen. To make the subject brighter, meter the light at a spot darker than the subject and lock the exposure of the entire screen.

1. Adjust the focus on the spot at which the exposure is adjusted.
2. Press the AEL button.



The exposure is locked, and ✱ (AE lock) lights up.

3. Keep pressing the AEL button and focus on a subject, then shoot.
   - Keep holding the AEL button down while taking a shot if you want to continue shooting with the fixed exposure. Release the button to reset the exposure.

Hint

- If you select the [AEL toggle] function in [Custom Key Settings], you can lock the exposure without holding down the AEL button.

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Use
Still Camera
DSC-RX10

AEL w/ shutter (still image)

Sets whether to fix the exposure when you press the shutter button halfway down.

1. MENU → (Custom Settings) → [AEL w/ shutter] → desired setting.

Menu item details

Auto (default setting):
Fixes the exposure after adjusting the focus automatically when you press the shutter button halfway down when [Focus Mode] is set to [Single-shot AF].

On:
Fixes the exposure when you press the shutter button halfway down.

Off:
Does not fix the exposure when you press the shutter button halfway down. Use this mode when you want to adjust focus and exposure separately.
The product keeps adjusting the exposure while shooting in [Cont. Shooting] or [Spd Priority Cont.] mode.

Note

- When [Focus Mode] is set to [Continuous AF] and [AEL w/ shutter] is [Off] or [Auto], the aperture is fixed at the moment you press the shutter button halfway. If the brightness changes drastically during continuous shooting, release your finger from the shutter button once, then press the shutter button halfway down again.
- Operation using the AEL button is prioritized over the [AEL w/ shutter] settings.

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Use
Still Camera
DSC-RX10

Exp.comp.set

Sets whether to apply the exposure compensation value to control both flash light and ambient light, or just ambient light.

1. MENU → (Custom Settings) → [Exp.comp.set] → desired setting.

Menu item details

Ambient&flash (default setting):

Applies the exposure compensation value to control both flash light and ambient light.

Ambient only:

Applies the exposure compensation value to control ambient light only.

Related Topic

Flash Comp.

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Use
Still Camera
DSC-RX10

Zebra

The zebra pattern will appear over the part of an image if the brightness level exceeds the IRE that you set. Use this zebra pattern as a guide to adjust the brightness.

1. MENU → (Custom Settings) → [Zebra] → desired setting.

Menu item details

Off (default setting):
Does not display the zebra pattern.
70/75/80/85/90/95/100/100+:
Adjusts the brightness level.

Note

- The zebra pattern is not displayed during HDMI connection.

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Use
Still Camera
DSC-RX10

Exposure Set. Guide

Sets the guide displayed when exposure settings are changed in the shooting screen.

1. MENU → (Custom Settings) → [Exposure Set. Guide] → desired setting.

Menu item details

Off:
Does not display the guide.
On (default setting):
Displays the guide.

Notes on use
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Help Guide
Use
Still Camera
DSC-RX10

Drive Mode

You can set the drive mode, such as continuous or self-timer shooting.

1. MENU → (Camera Settings) → [Drive Mode] → desired setting.

Menu item details

Single Shooting (default setting):
Shoots one still image. Normal shooting mode.

Cont. Shooting:
Shoots images continuously while you press and hold down the shutter button.

Spd Priority Cont.:
Shoots images continuously at high speed while you press and hold down the shutter button.

Self-timer:
Shoots an image after 10 or 2 seconds.

Self-timer(Cont):
Shoots images continuously after 10 seconds.

Cont. Bracket:
Shoots images while holding the shutter button down, each with different degrees of brightness.

Single Bracket:
Shoots a specified number of images, one by one, each with a different degree of brightness.

WB bracket:
Shoots a total of three images, each with a different degree of brightness according to the selected settings for white balance, color temperature and color filter.

DRO Bracket:
Shoots a total of three images, each at a different degree of D-Range Optimizer.

Related Topic

- Cont. Shooting
- Spd Priority Cont.
- Self-timer
- Self-timer(Cont)
- Cont. Bracket
- Single Bracket
- WB bracket
- DRO Bracket

Notes on use

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Use
Still Camera
DSC-RX10

Cont. Shooting

Shoots images continuously while you press and hold down the shutter button.

1. MENU→ (Camera Settings) → [Drive Mode] → [Cont. Shooting].

Hint

- To hold the focus and exposure during burst, change the following settings.
  The exposure of the first shot is determined when you press the shutter button halfway down. The exposure setting for the first shot is used for the subsequent shots.
  - Set [Focus Mode] to [Continuous AF].
  - Set [AEL w/ shutter] to [Off] or [Auto].

Related Topic

AEL w/ shutter (still image)

Notes on use
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Help Guide

Use

Still Camera

DSC-RX10

Spd Priority Cont.

The product continues to shoot as long as the shutter button is pressed. You can continuously shoot at a rate faster than that of [Cont. Shooting].

1. MENU→ (Camera Settings) → [Drive Mode] → [Spd Priority Cont.].

Hint

- In [Spd Priority Cont.] mode, the focus is fixed when you press the shutter button halfway down for the first image, and the focus is fixed after that. However, the exposure value is adjusted for each image. To use the same exposure for subsequent shots, change the following settings.
  The exposure of the first shot is determined when you press the shutter button halfway down. The exposure setting for the first shot is used for subsequent shots.
  – Set [AEL w/ shutter] to [Auto] or [Off].

Notes on use

4-477-079-12(1)

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Use
Still Camera
DSC-RX10

Self-timer

The product shoots an image using the self-timer with a 10-second or 2-second delay.

1. MENU → (Camera Settings) → [Drive Mode] → [Self-timer].
2. Select the desired mode using the right/left side of the control wheel.

Menu item details

Self-timer: 10 Sec (default setting):
Sets the 10-second delay self-timer.
When you press the shutter button, the self-timer lamp flashes and beeps until the shutter operates. To cancel the self-timer, press the shutter button again.

Self-timer: 2 Sec:
Sets the 2-second delay self-timer. This reduces the camera-shake caused by pressing the shutter button.

Notes on use
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Help Guide
Use
Still Camera
DSC-RX10

Self-timer(Cont)

Continuously shoots the number of images you have set after 10 seconds. You can choose the best shot from several shots taken.

1. MENU → (Camera Settings) → [Drive Mode] → [Self-timer(Cont)].
2. Select the desired mode using the right/left side of the control wheel.

Menu item details

Self-timer(Cont.): 10 Sec. 3 Img. (default setting):
Shoots three frames in succession 10 seconds after you press the shutter button.
When you press the shutter button, the self-timer lamp flashes, a beep sounds, and the shutter operates after 10 seconds.

Self-timer(Cont.): 10 Sec. 5 Img.:
Shoots five frames in succession 10 seconds after you press the shutter button.
When you press the shutter button, the self-timer lamp flashes, a beep sounds, and the shutter operates after 10 seconds.

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Help Guide

Use

Still Camera

DSC-RX10

Cont. Bracket

Shoots multiple images while automatically shifting the exposure from base to darker and then to lighter. Press and hold down the shutter button until the bracket recording is completed. You can select an image that suits your intention, after recording.

1. MENU → (Camera Settings) → [Drive Mode] → [Cont. Bracket]
2. Select the desired mode using the right/left side of the control wheel.

Menu item details

Cont. Bracket: 0.3EV 3 Image (default setting):
This setting shoots three images continuously with an exposure value shifted by plus or minus 0.3 EV.

Cont. Bracket: 0.3EV 5 Image:
This setting shoots five images continuously with an exposure value shifted by plus or minus 0.3 EV.

Cont. Bracket: 0.7EV 3 Image:
This setting shoots three images continuously with an exposure value shifted by plus or minus 0.7 EV.

Cont. Bracket: 0.7EV 5 Image:
This setting shoots five images continuously with an exposure value shifted by plus or minus 0.7 EV.

Cont. Bracket: 1.0EV 3 Image:
This setting shoots three images continuously with an exposure value shifted by plus or minus 1.0 EV.

Cont. Bracket: 2.0EV 3 Image:
This setting shoots three images continuously with an exposure value shifted by plus or minus 2.0 EV.

Cont. Bracket: 3.0EV 3 Image:
This setting shoots three images continuously with an exposure value shifted by plus or minus 3.0 EV.

Note

- The last shot is shown on the Auto Review.
- When [ISO AUTO] is selected in [Manual Exposure] mode, the exposure is changed by adjusting the ISO value. If a setting other than [ISO AUTO] is selected, the exposure is changed by adjusting the shutter speed.
- When you adjust the exposure, the exposure is shifted based on the compensated value.
- When the flash is used, the product performs flash bracket shooting, which shifts the amount of flash light even if [Cont. Bracket] is selected. Press the shutter button for each image.

Related Topic

Bracket order

Notes on use
4-477-079-12(1)
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Help Guide
Use
Still Camera
DSC-RX10

Single Bracket

Shoots multiple images while automatically shifting the exposure from base to darker and then to lighter.
Press the shutter button for each image. You can select an image that suits your purpose after recording.

1. MENU → (Camera Settings) → [Drive Mode] → [Single Bracket].
2. Select the desired mode using the right/left side of the control wheel.

Menu item details

Single Bracket: 0.3EV 3 Image (default setting):
This setting shoots a total of three images in a row with an exposure value shifted by plus or minus 0.3 EV.

Single Bracket: 0.3EV 5 Image:
This setting shoots a total of five images in a row with an exposure value shifted by plus or minus 0.3 EV.

Single Bracket: 0.7EV 3 Image:
This setting shoots a total of three images in a row with an exposure value shifted by plus or minus 0.7 EV.

Single Bracket: 0.7EV 5 Image:
This setting shoots a total of five images in a row with an exposure value shifted by plus or minus 0.7 EV.

Single Bracket: 1.0EV 3 Image:
This setting shoots a total of three images in a row with an exposure value shifted by plus or minus 1.0 EV.

Single Bracket: 2.0EV 3 Image:
This setting shoots a total of three images in a row with an exposure value shifted by plus or minus 2.0 EV.

Single Bracket: 3.0EV 3 Image:
This setting shoots a total of three images in a row with an exposure value shifted by plus or

minus 3.0 EV.

Note

- When [ISO AUTO] is selected in [Manual Exposure] mode, the exposure is changed by adjusting the ISO value. If a setting other than [ISO AUTO] is selected, the exposure is changed by adjusting the shutter speed.
- When you adjust the exposure, the exposure is shifted based on the compensated value.

Related Topic

Bracket order

Notes on use

4-477-079-12(1)

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Help Guide
Use
Still Camera
DSC-RX10

WB bracket

Shoots three images, each with different degrees of brightness according to the selected settings of white balance, color temperature and color filter.

1. MENU → (Camera Settings) → [Drive Mode] → [WB bracket].
2. Select the desired mode using the right/left side of the control wheel.

Menu item details

White Balance Bracket: Lo (default setting):
Records a series of three images with small changes in the white balance.

White Balance Bracket: Hi:
Records a series of three images with large changes in the white balance.

Note

- The last shot is shown on the Auto Review.

Related Topic

Bracket order

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Use
Still Camera
DSC-RX10

DRO Bracket

You can record a total of three images, each at a different degree of D-Range Optimizer value.

1. MENU → (Camera Settings) → [Drive Mode] → [DRO Bracket].
2. Select the desired mode using the right/left side of the control wheel.

Menu item details

DRO Bracket: Lo (default setting):
Records a series of three images with small changes in the D-Range Optimizer value.

DRO Bracket: Hi:
Records a series of three images with large changes in the D-Range Optimizer value.

Note

- The last shot is shown on the Auto Review.

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Help Guide

Use

Still Camera

DSC-RX10

Bracket order

You can set the shooting order for exposure bracketing and white balance bracketing.

1. MENU → (Custom Settings) → [Bracket order] → desired setting

Menu item details

0→ → (default setting):

Records in the following order: 0 → − → +.

→0→ :

Records in the following order: − → 0 → +.

Notes on use

4-477-079-12(1)

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Use
Still Camera
DSC-RX10

ISO

Sensitivity to light is expressed by the ISO number (recommended exposure index). The larger the number, the higher the sensitivity.

1. MENU → (Camera Settings) → [ISO] → desired setting.

Menu item details

Multi Frame NR:
Combines continuous shots to create an image with less noise.

ISO AUTO (default setting):
Sets the ISO sensitivity automatically.

80 / 100 / 125 / 160 / 200 / 250 / 320 / 400 / 500 / 640 / 800 / 1000 / 1250 / 1600 / 2000 / 2500 / 3200 / 4000 / 5000 / 6400 / 8000 / 10000 / 12800 :
You can reduce image blurring in dark locations or with moving subjects by increasing the ISO sensitivity (select a larger number).

Note

- [ISO AUTO] is selected when using the following functions:
  - [Intelligent Auto]
  - [Superior Auto]
  - [Scene Selection]
  - [Sweep Panorama]
- When [ISO] is set to a value lower than ISO 125, the range for recordable subject brightness (dynamic range) may decrease.
- The higher the ISO value, the more noise will appear on the images.
- When shooting movies, ISO values between ISO 125 and ISO 12800 are available.

Hint

- You can change the automatically set range of ISO sensitivity in the [ISO AUTO] setting. Select [ISO AUTO] and press the right side of the control wheel, and set the desired values for [ISO AUTO Maximum] and [ISO AUTO Minimum]. The settings [ISO AUTO Maximum] and [ISO AUTO Minimum] are also applied when shooting in [ISO AUTO] mode under [Multi Frame NR].

Related Topic

Multi Frame NR

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Use
Still Camera
DSC-RX10

Multi Frame NR

The product automatically shoots multiple images continuously, combines them, reduces the noise, and records them as one image. With multi frame noise reduction, you can select larger ISO numbers than the maximum ISO sensitivity. The image recorded is one combined image.

1. MENU → (Camera Settings) → [ISO] → [Multi Frame NR].
2. Press the right side of the control wheel to display the setting screen, then select a desired value using the top/bottom side of the control wheel.

Note

- When [Quality] is set to [RAW] or [RAW & JPEG], this function cannot be used.
- The flash, [D-Range Opt.], and [Auto HDR] cannot be used.

Hint

- You can change the automatically set range of ISO sensitivity in the [ISO AUTO] setting. Select [ISO AUTO] and press the right side of the control wheel, and set the desired values for [ISO AUTO Maximum] and [ISO AUTO Minimum]. The settings [ISO AUTO Maximum] and [ISO AUTO Minimum] are also applied when shooting in [ISO AUTO] mode under [Multi Frame NR].

Notes on use
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Help Guide
Use
Still Camera
DSC-RX10

D-Range Opt. (DRO)

By dividing the image into small areas, the product analyzes the contrast of light and shadow between the subject and the background, and creates an image with the optimal brightness and gradation.

1. MENU → (Camera Settings) → [DRO/Auto HDR] → [D-Range Opt.].
2. Select the desired setting using the left/right side of the control wheel.

Menu item details

D-Range Optimizer: Auto (default setting):
Corrects the brightness automatically.

D-Range Optimizer: Lv1 — D-Range Optimizer: Lv5:
Optimizes the gradation of a recorded image for each divided area. Select the optimization level from Lv1 (weak) to Lv5 (strong).

Note

- [DRO/Auto HDR] is fixed to [Off] when the shooting mode is set to [Sweep Panorama], or when [Multi Frame NR] or [Picture Effect] is used.
- The setting is fixed to [Off] when [Sunset], [Night Scene], [Night Portrait], [Hand-held Twilight], or [Anti Motion Blur] is selected in [Scene Selection]. The setting is fixed to [D-Range Optimizer: Auto] when other modes are selected in [Scene Selection].
- When shooting with [D-Range Opt.], the image may be noisy. Select the proper level by checking the recorded image, especially when you enhance the effect.

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Use
Still Camera
DSC-RX10

Auto HDR

Widens the range (gradation) so that you can record from bright parts to dark parts with correct brightness (HDR: High Dynamic Range). 1 image with proper exposure and one overlaid image are recorded.

1. MENU → (Camera Settings) → [DRO/Auto HDR] → [Auto HDR].
2. Select the desired setting using the left/right side of the control wheel.

Menu item details

Auto HDR: Exposure Diff. Auto (default setting):
Corrects the exposure difference automatically.

Auto HDR: Exposure Diff. 1.0EV — Auto HDR: Exposure Diff. 6.0EV:
Sets the exposure difference, based on the contrast of the subject. Select the optimal level between 1.0 EV (weak) and 6.0 EV (strong).
For example, if you set the exposure value to 2.0 EV, three images will be composed with the following exposure levels; −1.0 EV, optimal exposure and +1.0 EV.

Note

- [Auto HDR] is not available for RAW images.
- When the exposure mode is set to [Intelligent Auto], [Superior Auto], [Sweep Panorama] or [Scene Selection], you cannot select [Auto HDR].
- When [Multi Frame NR] is selected, you cannot select [Auto HDR].
- You cannot start the next shot until the capture process is completed after you shoot.
- You may not obtain the desired effect depending on the luminance difference of a subject and the shooting conditions.
- When the flash is used, this function has little effect.
- When the contrast of the scene is low or when product shake or subject blur occurs, you may not obtain good HDR images. If the product has detected a problem, HDR ! is displayed on the recorded image to inform you of this situation. Shoot again as necessary, paying attention to the contrast or blur.

Notes on use
4-477-079-12(1)

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Use
Still Camera
DSC-RX10

White Balance

Adjusts the color tones according to the ambient light conditions. Use this feature when the color tones of the image did not come out as you expected, or when you want to change the color tones on purpose for photographic expression.

1. MENU → (Camera Settings) → [White Balance] → desired setting.

Menu item details

AWB Auto (default setting):
The product automatically detects the light source and adjusts the color tones.

Daylight:
The color tones are adjusted for the daylight.

Shade:
The color tones are adjusted for shadiness.

Cloudy:
The color temperature is adjusted for a cloudy sky.

Incandescent:
The color temperature is adjusted for places under an incandescent lamp, or under bright lighting, such as in a photo studio.

Fluor.: Warm White:
The color temperature is adjusted for warm white fluorescent lighting.

Fluor.: Cool White:
The color temperature is adjusted for white fluorescent lighting.

Fluor.: Day White:
The color temperature is adjusted for neutral white fluorescent lighting.

Fluor.: Daylight:
The color temperature is adjusted for daylight fluorescent lighting.

Flash:
The color temperature is adjusted for flash light.

C.Temp./Filter:

Adjusts the color tones depending on the light source. Achieves the effect of CC (Color Compensation) filters for photography.

Custom 1/Custom 2/Custom 3:

Uses the white balance setting saved in [Custom Setup].

Custom Setup:

Memorizes the basic white color under the light conditions for the shooting environment. Select a memorized custom white balance number.

Hint

- You can use the right side of the control wheel to display the fine adjustment screen and perform fine adjustments of the color temperature as required.
- In [C.Temp./Filter], you can use the right side of the control wheel to display the color temperature setting screen and perform a setting. When you press the right side again, the fine adjustment screen appears to allow you perform fine adjustments as required.

Note

- [White Balance] is fixed to [Auto] in the following situations:
  - [Intelligent Auto]
  - [Superior Auto]
  - [Scene Selection]

Related Topic

- Capturing a basic white color in [Custom Setup] mode

Notes on use

4-477-079-12(1)

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Help Guide
Use
Still Camera
DSC-RX10

Capturing a basic white color in [Custom Setup] mode

In a scene where the ambient light consists of multiple types of light sources, it is recommended to use the custom white balance in order to accurately reproduce the whiteness.

1. MENU → (Camera Settings) → [White Balance] → [Custom Setup].
2. Hold the camera/camcorder so that the white area fully covers the AF area located in the center, and then press ● on the center of the control wheel.
   The calibrated values (Color Temperature and Color Filter) are displayed.
3. Select a registration number using the right/left side of the control wheel.
   The monitor returns to the recording information display while retaining the memorized custom white balance setting.

Note

- The message [Custom WB Error] indicates that the value is higher than the expected range, when the flash is used on a subject with too bright colors in the frame. If you register this value, the indicator turns yellow on the recording information display. You can shoot at this point, but it is recommended that you set the white balance again to get a more accurate white balance value.

Notes on use
4-477-079-12(1)
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Help Guide
Use
Still Camera
DSC-RX10

Picture Effect

Select the desired effect filter to achieve more impressive and artistic images.

1. MENU → (Camera Settings) → [Picture Effect] → desired setting.

Menu item details

Off (default setting):
Disables the [Picture Effect] function.

Toy Camera:
Creates the look of a Toy Camera photo with shaded corners and pronounced colors.

Pop Color:
Creates a vivid look by emphasizing color tones.

Posterization:
Creates a high contrast, abstract look by heavily emphasizing primary colors, or in black and white.

Retro Photo:
Creates the look of an aged photo with sepia color tones and faded contrast.

Soft High-key:
Creates an image with the indicated atmosphere: bright, transparent, ethereal, tender, soft.

Partial Color:
Creates an image which retains a specific color, but converts others to black and white.

High Contrast Mono.:
Creates a high-contrast image in black and white.

Soft Focus:
Creates an image filled with a soft lighting effect.

HDR Painting:
Creates the look of a painting, enhancing the colors and details.

Rich-tone Mono.:
Creates an image in black and white with rich gradation and reproduction of details.

Miniature:

Creates an image which enhances the subject vividly, with the background defocused considerably. This effect may often be found in pictures of miniature models.

Watercolor:

Creates an image with ink bleed and blurring effects as if painted using watercolors.

Illustration:

Creates an illustration-like image by emphasizing the outlines.

Hint

- You can perform detailed settings for the following [Picture Effect] modes using the left/right side of the control wheel.
  - [Toy Camera]
  - [Posterization]
  - [Partial Color]
  - [Soft Focus]
  - [HDR Painting]
  - [Miniature]
  - [Illustration]

Note

- When [Partial Color] is selected, images may not retain the selected color, depending on the subject or shooting conditions.
- You cannot check the following effects on the shooting screen, because the product processes the image after the shot. Also, you cannot shoot another image until image processing is finished. You cannot use these effects with movies.
  - [Soft Focus]
  - [HDR Painting]
  - [Rich-tone Mono.]
  - [Miniature]
  - [Watercolor]
  - [Illustration]
- In the case of [HDR Painting] and [Rich-tone Mono.], the shutter is released three times for one shot. Be careful about the following:
  - Use this function when the subject is motionless or does not flash light.
  - Do not change the composition before shooting.

  When the contrast of the scene is low or when significant camera-shake or subject blur has occurred, you may not be able to obtain good HDR images. If the product detects such a situation, / appear on the recorded image to inform you of this situation. If necessary, change the composition or otherwise adjust the settings, be careful of blurring,

and shoot again.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Creative Style

Allows you to select the desired image processing. You can adjust exposure (shutter speed and aperture) as you like with [Creative Style], unlike with [Scene Selection] where the product adjusts the exposure.

1. MENU → (Camera Settings) → [Creative Style] → desired setting.

Menu item details

Std. Standard (default setting):
For shooting various scenes with rich gradation and beautiful colors.

Vivid Vivid:
The saturation and contrast are heightened for shooting striking images of colorful scenes and subjects such as flowers, spring greenery, blue sky, or ocean views.

Ntrl Neutral:
The saturation and sharpness are lowered for shooting images in subdued tones. This is also suitable for capturing image material to be modified with a computer.

Clear Clear:
For shooting images in clear tones with limpid colors in highlight, suitable for capturing radiant light.

Deep Deep:
For shooting images with deep and dense colors, suitable for capturing the solid presence of the subject.

Light Light:
For shooting images with bright and simple colors, suitable for capturing a refreshingly light ambience.

Port. Portrait:
For shooting the skin color in a soft tone, ideally suited for shooting portraits.

Land. Landscape:
The saturation, contrast, and sharpness are heightened for shooting vivid and crisp scenery. Distant landscapes also stand out more.

Sunset:
For shooting the beautiful red of the setting sun.

Night Scene:
The contrast is lowered for reproducing night scenes.

Autumn leaves:
For shooting autumn scenes, vividly highlighting the reds and yellows of changing leaves.

Black & White:
For shooting images in black and white monotone.

Sepia:
For shooting images in sepia monotone.

To set [Contrast], [Saturation] and [Sharpness]

[Contrast], [Saturation] and [Sharpness] can be adjusted for each [Creative Style] item.
Select an item to be set by pressing the right/left side of the control wheel, then set the value using the top/bottom side of the control wheel.

Contrast:
The higher the value selected, the more the difference of light and shadow is accentuated, and the bigger the effect on the image.

Saturation:
The higher the value selected, the more vivid the color. When a lower value is selected, the color of the image is restrained and subdued.

Sharpness:
Adjusts the sharpness. The higher the value selected, the more the contours are accentuated, and the lower the value selected, the more the contours are softened.

Registering preferred settings (Style Box)

Select the six style box (the boxes with numbers on the left side (1 Std.)) to register preferred settings. Then select the desired settings using the right side of the control wheel.
You can call up the same style with slightly different settings.

Note

- [Standard] is selected when using the following functions:
  - [Intelligent Auto]
  - [Superior Auto]
  - [Scene Selection]
  - [Picture Effect]
- When [Creative Style] is set to [Black & White] or [Sepia], [Saturation] cannot be adjusted.

Notes on use

4-477-079-12(1)
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SONY
Help Guide
Use
Still Camera
DSC-RX10

File Format (movie)

Selects the movie file format.

1. MENU → (Camera Settings) → [File Format] → desired setting.

Menu item details

AVCHD (default setting):
Records high-definition movies. This file format is suitable for viewing movies on a high-definition TV.
You can create a Blu-ray Disc, an AVCHD recording disc, or a DVD-Video disc using the software "PlayMemories Home."
MP4:
Records mp4 (AVC) movies. This format is suitable for WEB uploads, e-mail attachments, etc.
You cannot create a disc with a movie that was recorded when [File Format] was set to [MP4].

Notes on use
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Use
Still Camera
DSC-RX10

Record Setting (movie)

Selects the image size, frame rate, and image quality for movie recording. The higher the bit-rate, the higher the image quality.

1. MENU → (Camera Settings) → [Record Setting] → desired setting.

When [File Format] is set to [AVCHD]

60i/50i: Movies are recorded at approximately 60 fields/sec (for 1080 60i-compatible devices) or 50 fields/sec (for 1080 50i-compatible devices), in interlaced mode, with Dolby Digital audio, in AVCHD format.
24p/25p: Movies are recorded at approximately 24 frames/sec (for 1080 60i-compatible devices) or 25 frames/sec (for 1080 50i-compatible devices), in progressive mode, with Dolby Digital audio, in AVCHD format.
60p/50p: Movies are recorded at approximately 60 frames/sec (for 1080 60i-compatible devices) or 50 frames/sec (for 1080 50i-compatible devices), in progressive mode, with Dolby Digital audio, in AVCHD format.

When [File Format] is set to [MP4]

Movies shot are recorded in MPEG-4 format, at approximately 30 frames/sec (for 1080 60i-compatible devices) or approximately 25 frames/sec (for 1080 50i-compatible devices), in progressive mode, with AAC audio, mp4 format.

Menu items details

When [File Format] is set to [AVCHD]

60i 24M(FX)*:
50i 24M(FX):**
Records high image quality movies of 1920 × 1080 (60i/50i).
Bit-rate: Maximum 24 Mbps

60i 17M(FH) (default setting)*:
50i 17M(FH) (default setting):**
Records standard image quality movies of 1920 × 1080 (60i/50i).
Bit-rate: Average 17 Mbps

60p 28M(PS)*:
50p 28M(PS):**
Records the highest image quality movies of 1920 × 1080 (60p/50p).
Bit-rate: Maximum 28 Mbps

24p 24M(FX)*:
25p 24M(FX):**
Records high image quality movies of 1920 × 1080 (24p/25p). This produces a cinema-like atmosphere.
Bit-rate: Maximum 24 Mbps

24p 17M(FH)*:
25p 17M(FH):**
Records standard image quality movies of 1920× 1080 (24p/25p). This produces a cinema-like atmosphere.
Bit-rate: Average 17 Mbps

[File Format]:[MP4]

1440×1080 12M (default setting):
Records movies of 1440 × 1080.
Bit-rate: Average 12 Mbps

VGA 3M:
Records movies of VGA size.
Bit-rate: Average 3 Mbps

* 1080 60i (NTSC) compatible device
** 1080 50i (PAL) compatible device

Note

- 60p/50p movies can be played back only on compatible devices.
- Movies recorded with the [60p 28M(PS)]/[50p 28M(PS)]/[60i 24M(FX)]/[50i 24M(FX)]/ [24p 24M(FX)] /[25p 24M(FX)] setting in [Record Setting] are converted by “PlayMemories Home” in order to create an AVCHD recording disc. This conversion can take a long time. Also, you cannot create a disc in the original image quality. If you want to keep the original image quality, store your movies on a Blu-ray Disc.
- To play back 24p/25p movies on a TV, the TV must be compatible with the 24p/25p formats. If the TV is not compatible with the 24p/25p format, 24p/25p movies will be output as 60i/50i movies.

Notes on use
4-477-079-12(1)
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Help Guide
Use
Still Camera
DSC-RX10

SteadyShot (movie)

Sets [SteadyShot] effect when shooting movies. If you set the [SteadyShot] effect to [Off] when using a tripod (sold separately), a natural image is produced.

1. MENU→ (Camera Settings) → [SteadyShot] → desired setting.

Menu item details

Active (default setting):

Provides a more powerful SteadyShot effect.

Standard:

Reduces camera shake under stable movie shooting conditions.

Off:

Does not provide [SteadyShot].

Note

- If you change the setting for [SteadyShot], the angle of view will change.

Notes on use
4-477-079-12(1)
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Use
Still Camera
DSC-RX10

Audio Recording

Sets whether to record sounds when shooting movies.

1. MENU → (Camera Settings) → [Audio Recording] → desired setting.

Menu item details

On (default setting):
Records sound (stereo).
Off:
Does not record sound.

Note

- The noise of the lens and the product in operation will also be recorded, when [On] is selected.

Notes on use
4-477-079-12(1)
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Help Guide
Use
Still Camera
DSC-RX10

Audio Level Display

Sets whether to display the audio level on the screen.

1. MENU→ (Custom Settings) → [Audio Level Display] → desired setting.

Menu item details

On (default setting):

Displays the audio level.

Off:

Does not display the audio level.

Note

- The audio level is not displayed in the following situations:
  - When [Audio Recording] is set to [Off].
  - When DISP (Display Setting) is set to [No Disp. Info.].
- Set the shooting mode to [Movie]. You can see the audio level before recording only in movie recording mode.

Notes on use
4-477-079-12(1)
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Help Guide
Use
Still Camera
DSC-RX10

Audio Rec Level

You can adjust the audio recording level while checking the level meter.

1. MENU → (Camera Settings) → [Audio Rec Level] → desired setting.

Menu item details

+:

Turns up the audio recording level.

−:

Turns down the audio recording level.

Reset:

Resets the audio recording level to the default setting.

Note

- Regardless of the [Audio Rec Level] settings, the limiter always operates.
- [Audio Rec Level] is available only when the shooting mode is set to Movie.
- The [Audio Rec Level] settings are applied for both the internal microphone and the (Microphone) terminal input.

Hint

- Use a headphone and adjust the audio level by checking the actual sound.
- When you record audio movies with loud volumes, set [Audio Rec Level] to a lower sound level. Doing so enables you to record more realistic audio. When you record audio movies with lower volumes, set [Audio Rec Level] to a greater sound level to make the sound easier to hear.

Notes on use
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Help Guide

Use

Still Camera

DSC-RX10

Audio Out Timing

When using headphones, you can set echo cancellation while shooting.

1. MENU → (Camera Settings) → [Audio Out Timing] → desired setting.

Menu item details

Live (default setting):

Outputs audio without delay when recording movies. Select this setting when audio deviation is a problem during audio monitoring.

Lip Sync:

Outputs video and audio in sync when recording movies. Select this setting to prevent undesirable deviations between video and audio.

Notes on use

4-477-079-12(1)

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Use
Still Camera
DSC-RX10

Wind Noise Reduct.

Sets whether or not to reduce wind noise during movie recording.

1. MENU → (Camera Settings) → [Wind Noise Reduct.] → desired setting.

Menu item details

On:
Reduces wind noise.
Off (default setting):
Does not reduce wind noise.

Note

- Setting this item to [On] where wind is not blowing sufficiently hard may cause normal sound to be recorded with too low volume.
- When an external microphone (sold separately) is used, [Wind Noise Reduct.] does not function.

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Use
Still Camera
DSC-RX10

Auto Slow Shut. (movie)

Set whether or not to adjust the shutter speed automatically when recording movies if the subject is dark.

1. MENU → (Camera Settings) → [Auto Slow Shut.] → desired setting.

Menu item details

On (default setting):
Uses [Auto Slow Shutter]. The shutter speed automatically slows. You can reduce noise in the movie by using a slow shutter speed when recording in dark locations.
Off:
Does not use [Auto Slow Shut.]. The recorded movie will be darker than when [On] is selected, but you can record movies with smoother motion and less object blur.

Note

- [Auto Slow Shut.] does not function in the following situations:
  - When [Movie] in shooting mode is set to [Shutter Priority] or [Manual Exposure].
  - When [ISO] is set to other than [ISO AUTO].

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MOVIE Button

Sets whether or not to activate the MOVIE button.

1. MENU → (Custom Settings) → [MOVIE Button] → desired setting.

Menu item details

Always (default setting):
Starts movie recording when you press the MOVIE button in any mode.
Movie Mode Only:
Starts movie recording when you press the MOVIE button only if the shooting mode is set to [Movie] mode.

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Use

Still Camera

DSC-RX10

Memory

Allows you to register up to two often-used modes or product settings in the product. You can recall the settings using just the mode dial.

1. Set the product to the setting you want to register.
2. MENU → (Camera Settings) → [Memory] → desired number.

Items that can be registered

- Shooting mode
- Shutter speed
- Camera Settings
- Optical zoom scale

To recall registered settings

Select the memory number from “1” or “2” on the mode dial.

To change registered settings

Change the setting to the desired one and re-register the setting to the same mode number.

Note

- Program Shift cannot be registered.
- For some functions, the position of the dial and the setting actually used for shooting may not match. If this happens, shoot images by referring to the information displayed on the monitor.

Related Topic

Memory recall

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Function Menu Set.

You can assign the functions to be called up when you press the Fn (Function) button.

1. MENU → (Custom Settings) → [Function Menu Set.] → set a function to the desired location.

The functions that can be assigned are displayed on the setup item selection screen.

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Custom Key Settings

Assigning functions to the various keys allows you to speed up operations by pressing the appropriate key when the shooting information screen is displayed.

1. MENU → (Custom Settings) → [Custom Key Settings] → set a function to the desired key.

Note

- Some functions cannot be assigned to certain keys.

Related Topic

- Function of the control wheel
- Function of the AEL button
- Function of the C button
- Function of the center button
- Function of the left button
- Function of the right button
- Function of the down button

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Function of the control wheel

Once you assign a function to the control wheel, you can perform that function by simply turning the wheel when the shooting information screen is displayed.

1. MENU → (Custom Settings) → [Custom Key Settings] → [Control Wheel] → desired setting.

The functions that can be assigned are displayed on the setup item selection screen.

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Still Camera

DSC-RX10

Function of the AEL button

Once you assign a function to the AEL button, you can perform that function by simply pressing the AEL button when the shooting information screen is displayed.

1. MENU→ (Custom Settings) → [Custom Key Settings] → [AEL Button] → desired setting.

The functions that can be assigned are displayed on the setup item selection screen.

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Use

Still Camera

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Function of the C button

Once you assign a function to the C button, you can perform that function by simply pressing the C button when the shooting information screen is displayed.

1. MENU → (Custom Settings) → [Custom Key Settings] → [C Button] → desired setting.

The functions that can be assigned are displayed on the setup item selection screen.

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Function of the center button

Once you assign a function to the center button, you can perform that function by simply pressing the center button when the shooting information screen is displayed.

1. MENU → (Custom Settings) → [Custom Key Settings] → [Center Button] → desired setting.

The functions that can be assigned are displayed on the setup item selection screen.

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Function of the left button

Once you assign a function to the left button, you can perform that function by simply pressing the left button when the shooting information screen is displayed.

1. MENU → (Custom Settings) → [Custom Key Settings] → [Left Button] → desired setting.

The functions that can be assigned are displayed on the setup item selection screen.

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Function of the right button

Once you assign a function to the right button, you can perform that function by simply pressing the right button when the shooting information screen is displayed.

1. MENU → (Custom Settings) → [Custom Key Settings] → [Right Button] → desired setting.

The functions that can be assigned are displayed on the setup item selection screen.

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Use

Still Camera

DSC-RX10

Function of the down button

Once you assign a function to the down button, you can perform that function by simply pressing the down button when the shooting information screen is displayed.

1. MENU → (Custom Settings) → [Custom Key Settings] → [Down Button] → desired setting.

The functions that can be assigned are displayed on the setup item selection screen.

Notes on use

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Use
Still Camera
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Smile/Face Detect.

Detects the faces of your subjects and adjusts the focus, exposure, flash settings and performs image processing automatically.

1. MENU → (Camera Settings) → [Smile/Face Detect.] → desired setting.

Menu item details

Off (default setting):
Does not use the [Face Detection] function.
On (Regist. Faces):
Detects the registered face with higher priority using [Face Registration].
On:
Detects a face without giving higher priority to the registered face.
Smile Shutter:
Automatically detects and shoots a smile.

Face Detection frame

- When the product detects a face, the gray face detection frame appears. When the product determines that autofocus is enabled, the face detection frame turns white. When you press the shutter button halfway down, the frame turns green.
- When the product detects two or more faces, it selects the face to be adjusted with higher priority and the face detection frame over that face turns white. The face detection frames of other registered faces will turn reddish-purple.



Tips for capturing smiles more effectively

- Do not cover the eyes with front hair and keep the eyes narrowed.
- Do not obscure the face by a hat, masks, sunglasses, etc.

- Try to orient the face in front of the product and be as level as possible.
- Give a clear smile with an open mouth. The smile is easier to be detected when the teeth are shown.
- If you press the shutter button during Smile Shutter, the product shoots the image. After shooting, the product returns to Smile Shutter mode.

Hint

- When the [Smile/Face Detect.] is set to [Smile Shutter], you can select the Smile Detection Sensitivity from [On: Slight Smile], [On: Normal Smile] and [On: Big Smile].

Note

- You cannot use [Face Detection] with the following functions:
  - When using zoom functions other than the optical zoom
- Up to eight faces of your subjects can be detected.
- The product may not detect faces at all or may accidentally detect other objects as faces in some conditions.
- If the product cannot detect a face, set the Smile Detection Sensitivity.
- If you track a face using [Lock-on AF] while executing [Smile Shutter], Smile Detection is performed only for that face.

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Soft Skin Effect (still image)

Sets the effect used for shooting the skin smoothly in the [Face Detection] function.

1. MENU → (Camera Settings) → [Soft Skin Effect] → desired setting.

Menu item details

Off (default setting):
Does not use the [Soft Skin Effect] function.
On:
Uses the [Soft Skin Effect].

Hint

- When [Soft Skin Effect] is set to [On], you can select the effect level.

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Face Registration (New Registration)

If you register faces in advance, the product can detect the registered face as a priority when [Face Detection] is set to [On (Regist. Faces)].

1. MENU → (Custom Settings) → [Face Registration] → [New Registration].
2. Align the guide frame with the face to be registered, and press the shutter button.
3. When a confirmation message appears, select [Enter].

Note

- Up to eight faces can be registered.
- Shoot the face from the front in a brightly lit place. The face may not be registered correctly if it is obscured by a hat, a mask, sunglasses, etc.

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Face Registration (Order Exchanging)

When multiple faces are registered to be given priority, the face registered first will be given priority. You can change the priority order.

1. MENU → (Custom Settings) → [Face Registration] → [Order Exchanging].
2. Select a face to change the order of priority.
3. Select the destination.

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Face Registration (Delete)

Deletes a registered face.

1. MENU → (Custom Settings) → [Face Registration] → [Delete].
   If you select [Delete All], you can delete all registered faces.

Note

- Even if you execute [Delete], the data for registered face will remain in the product. To delete the data for registered faces from the product, select [Delete All].
- Even if you execute [Setting Reset], registered faces are not deleted.

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Red Eye Reduction

When using the flash, it is fired two or more times before shooting to reduce the red-eye phenomenon.

1. MENU → (Camera Settings) → [Red Eye Reduction] → desired setting.

Menu item details

On:
The flash is always fired to reduce the red-eye phenomenon.
Off (default setting):
Does not use Red Eye Reduction.

Note

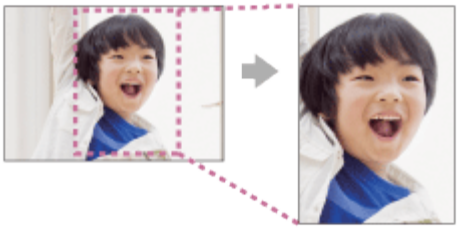
- Red Eye Reduction may not produce the desired effects. It depends on individual differences and conditions, such as distance to the subject, or whether the subject looks at the pre-strobe or not.

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Auto Obj. Framing (still image)

When this product detects and shoots faces, macro shooting subjects or subjects that are tracked by [Lock-on AF], the product automatically trims the image into an appropriate composition, and then saves it. Both the original and the trimmed images are saved. The trimmed image is recorded in the same size as the original image size.



1. MENU → (Camera Settings) → [Auto Obj. Framing] → desired setting.
   - If trimming is enabled when Live View Display mode is used, will be displayed.
   - After the shot, a frame showing the trimmed area is displayed on the Auto Review screen.

Menu item details

Off (default setting):

Does not trim images.

Auto:

Automatically trims images into an appropriate composition.

Note

- The trimmed image may not be the best possible composition, depending on the shooting conditions.

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SteadyShot (still image)

Sets whether or not to use the SteadyShot function.

1. MENU → (Camera Settings) → [SteadyShot] → desired setting.

Menu item details

On (default setting):
Uses [SteadyShot].
Off:
Does not use [SteadyShot].
We recommend that you set the camera to [Off] when using a tripod.

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Long Exposure NR (still image)

When you set the shutter speed to 1/3 second or longer (long exposure shooting), noise reduction is turned on for the duration that the shutter is open. With the function turned on, the grainy noise typical of long exposures is reduced.

1. MENU → (Camera Settings) → [Long Exposure NR] → desired setting.

Menu item details

On (default setting):

Activates noise reduction for the same duration that the shutter is open. When noise reduction is in progress, a message appears and you cannot take another picture. Select this to prioritize the image quality.

Off:

Does not activate noise reduction. Select this to prioritize the timing of shooting.

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High ISO NR (still image)

When shooting with high ISO sensitivity, the product reduces noise that becomes more noticeable when the product sensitivity is high. A message may be displayed during noise reduction processing; you cannot shoot another image until the message disappears.

1. MENU → (Camera Settings) → [High ISO NR] → desired setting.

Menu item details

Normal (default setting):

Activates high ISO noise reduction normally.

Low:

Activates high ISO noise reduction moderately. Select this to prioritize the timing of shooting.

Off:

Does not activate high ISO noise reduction.

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Write Date (still image)

Sets whether to record a shooting date on the still image.

1. MENU → (Custom Settings) → [Write Date] → desired setting.

Menu item details

On:

Records a shooting date.
When [On] is selected, the DATE mark will appear on the screen while shooting. However, in some shooting modes that cannot record dates on images, the DATE mark will disappear.

Off (default setting):

Does not record a shooting date.

Note

- If you shoot images with the date once, you cannot delete the date from the images later.
- The dates are doubly printed if you set the product to print dates when printing the images.
- The recorded time of the image cannot be superimposed on the image.

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Color Space (still image)

The way colors are represented using combinations of numbers or the range of color reproduction is called “color space.” You can change the color space depending on the purpose of the image.

1. MENU → (Camera Settings) → [Color Space] → desired setting.

Menu item details

sRGB (default setting):

This is the standard color space of the digital camera. Use [sRGB] in normal shooting, such as when you intend to print out the images without any modification.

AdobeRGB:

This has a wide range of color reproduction. When a large part of the subject is vivid green or red, Adobe RGB is effective. The file name of the image starts with “_DSC.”

Note

- [AdobeRGB] is for applications or printers that support color management and DCF2.0 option color space. Images may not be printed or viewed in the correct colors if you use applications or printers that do not support Adobe RGB.
- When displaying images that were recorded with [AdobeRGB] on the product or non-Adobe RGB-compliant devices, the images are displayed with low saturation.

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Use
Still Camera
DSC-RX10

Grid Line

Sets whether the grid line is displayed or not. The grid line will help you to adjust the composition of images.

1. MENU → (Custom Settings) → [Grid Line] → desired setting.

Menu item details

Rule of 3rds Grid:
Place main subjects close to one of the grid lines that divide the image into thirds for a well-balanced composition.
Square Grid:
Square grids make it easier to confirm the horizontal level of your composition. This is suitable to determine the quality of the composition when shooting landscape, close-up, or duplicated images.
Diag. + Square Grid:
Place a subject on the diagonal line to express an uplifting and powerful feeling.
Off (default setting):
Does not display the grid line.

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Use

Still Camera

DSC-RX10

Auto Review

You can check the recorded image on the screen right after the shooting. You can also set the display time for Auto Review.

1. MENU → (Custom Settings) → [Auto Review] → desired setting.

Menu item details

10 Sec / 5 Sec / 2 Sec (default setting):

Displays the recorded image on the screen right after shooting for the selected duration of time. If you perform a magnifying operation during Auto Review, you can check that image using the magnified scale.

Off:

Does not display the Auto Review.

Note

- When the product is enlarging an image using image processing, it may temporarily display the original image prior to enlarging and then display the enlarged image.
- The DISP (Display Setting) settings are applied for the Auto Review display.

Related Topic

Switching the screen display (during playback)

Notes on use

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Live View Display

Sets whether or not to show images altered with effects of the exposure compensation, white balance, [Creative Style], or [Picture Effect] on the screen.

1. MENU → (Custom Settings) → [Live View Display] → desired setting.

Menu item details

Setting Effect ON (default setting):
Displays Live View in conditions close to what your picture will look like as a result of applying all your settings. This setting is useful when you want to shoot pictures while checking the results of the shot on the Live View screen.
Setting Effect OFF:
Shows Live View without the effects of exposure compensation, white balance, [Creative Style], or [Picture Effect]. When this setting is used, you can easily check the image composition. Live View is always displayed with the appropriate brightness even in [Manual Exposure] mode.

Note

- When the shooting mode is set to [Intelligent Auto], [Superior Auto], [Sweep Panorama], [Movie] or [Scene Selection], [Live View Display] cannot be set to [Setting Effect OFF].
- When [Live View Display] is set to [Setting Effect ON], you may have difficulty checking the composition, as the Live View Display may seem too dark or too bright. If such a phenomenon occurs, set [Live View Display] to [Setting Effect OFF]. When [Live View Display] is set to [Setting Effect OFF], the brightness of the shot image will not be the same as that of the displayed Live View.

Hint

- When you use a third-party flash, such as a studio flash, Live View Display may be dark for some shutter speed settings. When [Live View Display] is set to [Setting Effect OFF], Live View Display will be displayed brightly, so that you can easily check the composition.

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DSC-RX10

FINDER/MONITOR

Switches the display between Electronic Viewfinder and the screen.

1. MENU → (Custom Settings) → [FINDER/MONITOR] → desired setting.

Menu item details

Auto (default setting):
When you look into the Electronic Viewfinder, the display is switched to the Electronic Viewfinder automatically.

Viewfinder:
The screen is turned off and the image is always displayed in the Electronic Viewfinder.

Monitor:
The Electronic Viewfinder is turned off and the image is always displayed on the screen.

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DSC-RX10

Dial / Wheel Lock

You can set whether the dial and wheel will be locked by pressing and holding the Fn (Function) button.

1. MENU → (Custom Settings) → [Dial / Wheel Lock] → desired setting.

Menu item details

Lock:
Locks the control dial and control wheel.

Unlock (default setting):
Does not lock the control dial or control wheel even if you press and hold the Fn (Function) button.

Hint

- You can release [Dial / Wheel Lock] by holding the Fn (Function) button down.

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Use

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Deactivate Monitor

When you press the key to which the [Deactivate Monitor] function is assigned, the monitor display is turned off.

1. MENU → (Custom Settings) → [Custom Key Settings] → set the [Deactivate Monitor] function to the desired key.
2. Press the key to which [Deactivate Monitor] was assigned.

Related Topic

- Custom Key Settings

Notes on use

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ND Filter

If you use an ND filter, the amount of light entering the camera is reduced. You can slow down the shutter speed and decrease the aperture value for a better exposure.

1. MENU → (Camera Settings) → [ND Filter] → desired setting.

Menu item details

Auto (default setting):
Automatically turns on the ND filter based on the shooting mode and brightness.
On:
Always uses [ND Filter].
Off:
Disables the [ND Filter] function.

Hint

- When the ND filter is activated, the icon is displayed on the bottom of the screen.

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Use

Still Camera

DSC-RX10

Playing back images

Plays back the recorded images.

1. Press the ▶ (Playback) button to switch to the playback mode.
2. Select the image with the control wheel.

Hint

- The product creates an image database file on a memory card to record and play back images. An image that is not registered in the image database file may not be played back correctly. To play back images shot using other devices, register those images to the image database file using MENU → [Setup] → [Recover Image DB].

Related Topic

Recover Image DB

Notes on use

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Still Camera
DSC-RX10

Playback zoom

Enlarges the image being played back.

1. Display the image you want to enlarge, and slide the W/T (zoom) lever to the T side.
   - If the image is too large, slide the W/T (zoom) lever to the W side to adjust the zoom scale.

2. Select the portion you want to enlarge by pressing the top/bottom/right/left side of the control wheel.

Hint

- You can also enlarge an image being played back using MENU.
- You can also enlarge an image by pressing the button.

Note

- You cannot use the enlarged playback function with movies.

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Still Camera
DSC-RX10

Image Index

You can display multiple images at the same time in playback mode.

1. Slide the W/T (zoom) lever to the W side while the image is being played back.
   To change the number of images to be displayed
   MENU → (Playback) → [Image Index] → desired setting.

Menu item details

9 Images (default setting)/25 Images

To return to single-image playback

Select the desired image and press ● on the center of the control wheel.

Displaying a desired image quickly

Select the bar on the left of the image index screen using the control wheel, then press the top/bottom side of the control wheel. When the bar is being selected, you can display the calendar screen or folder selection screen by pressing ● in the center. In addition, you can switch View Mode by selecting an icon.

Related Topic

View Mode

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Use
Still Camera
DSC-RX10

Switching the screen display (during playback)

Switches the screen display.

1. Press the DISP (Display Setting) button.
   - The screen display switches in the order “Display Info. → Histogram → No Disp. Info. → Display Info.” each time you press the DISP button.
   - The DISP (Display Setting) settings are applied for the Auto Review display.

Note

- The histogram is not displayed in the following situations:
  - During movie playback
  - During scrolling playback of panoramic images
  - During slideshows
  - During Folder View (MP4)
  - During AVCHD View

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Use

Still Camera

DSC-RX10

Deleting a displayed image

You can delete an image displayed.

1. Display the image you want to delete.
2. Press the (Delete) button.
3. Select [Delete] using the control wheel, then press ● on the center of the control wheel.

Related Topic

- Deleting multiple selected images

Notes on use

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Use
Still Camera
DSC-RX10

Deleting multiple selected images

You can delete multiple selected images.

1. MENU → (Playback) → [Delete] → desired setting.

Menu item details

Multiple Img.:
Deletes the selected images.
(1) Select the images to be deleted, then press ● on the center of the control wheel. The ✓ mark is displayed in the check box. To cancel the selection, press ● again to remove the ✓ mark.
(2) To delete other images, repeat step (1).
(3) MENU → [OK] → Press ● on the center.

All in this Folder:
Deletes all images in the selected folder.

All with this date:
Deletes all images in the selected date range.

Related Topic

Deleting a displayed image

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Use

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Playing back movies

Plays back the recorded movies.

1. Press the (playback) button to switch to playback mode.
2. Select the movie to be played back using the control wheel.
3. To play back movies, press ● on the center.

Available operations during movie playback

You can perform slow playback and sound volume adjustment, etc. by pressing the bottom side of the control wheel.

- : Playback
- : Pause
- : Fast-forward
- : Fast-rewind
- : Forward slow playback
- : Reverse slow playback
- : Next movie file
- : Previous movie file
- : Displays the next frame
- : Displays the previous frame
- : Sound volume adjustment
- : Closes the operation panel

Hint

- “Forward slow playback,” “Reverse slow playback,” “Displays the next frame” and “Displays the previous frame” are available during pause.

Related Topic

View Mode

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Still Camera
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Playing back panoramic images

The product automatically scrolls a panoramic image from end to end.

1. Press the ▶ (playback) button to switch to playback mode.
2. Select the panoramic image to be played back using the control wheel.
3. Press ● on the center to play back the image.



- To pause playback, press ● on the center again.
- To return to the display of the entire image, press the MENU key.

Note

- Panoramic images shot using other product may be displayed in a different size from the actual size, or may not scroll correctly.

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Specify Printing

You can specify in advance on the memory card which still images you want to print out later.

1. MENU → (Playback) → [Specify Printing] → desired setting.

Menu item details

Multiple Img.:
Selects images to order printing.
(1) Select an image and press ● on the center of the control wheel. A ✓ mark is displayed in the check box. To cancel the selection, press ● and delete the ✓ mark.
(2) Repeat step 1 to print other images.
(3) MENU → [OK] → ● on the center.
Cancel All:
Clears all DPOF marks.
Print Setting:
You can set whether to print the date on images registered with DPOF marks.
(1) Select [On] or [Off] → [Enter] in [Date Imprint].

Note

- You cannot add the DPOF mark to the following files:
  - Movies
  - RAW images

Notes on use
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Help Guide

Use

Still Camera

DSC-RX10

View Mode

Sets the View Mode (image display method).

1. MENU → (Playback) → [View Mode] → desired setting.

Menu item details

Date View:

Displays the images by date.

Folder View(Still):

Displays only still images.

Folder View(MP4):

Displays only MP4-format movies.

AVCHD View:

Displays only AVCHD-format movies.

Notes on use

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Use
Still Camera
DSC-RX10

Display Rotation

Selects the orientation when playing back recorded still images.

1. MENU → (Playback) → [Display Rotation] → desired setting.

Menu items details

Auto:
The image is displayed according to the orientation information of the image. You can rotate the image using the rotation function. Even if the product is tilted, the display orientation is maintained.

Manual:
The image is displayed according to the orientation information of the image. You can rotate the image using the rotation function.

Off:
Always displays in landscape orientation.

Related Topic

Rotate

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Help Guide

Use

Still Camera

DSC-RX10

Slide Show

Automatically plays back images continuously.

1. MENU → (Playback) → [Slide Show] → desired setting.
2. Select [Enter].

Menu item details

Repeat:

Select [On], in which images are played back in a continuous loop, or [Off] (default setting), in which the product exits the slideshow when all the images are played back once.

Interval:

Select the display interval for images from among [1 Sec], [3 Sec] (default setting), [5 Sec], [10 Sec] or [30 Sec].

To quit the slideshow in the middle of playback

- Press the MENU key to quit the slideshow. You cannot pause the slideshow.

Hint

- You can activate a slideshow only when [View Mode] is set to [Date View] or [Folder View(Still)].

Notes on use

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Use
Still Camera
DSC-RX10

Rotate

Rotates a recorded still image counter-clockwise.

1. MENU → (Playback) → [Rotate].
2. Press ● on the center of the control wheel.
   The image is rotated counter-clockwise. The image rotates as you press ● on the center. If you rotate the image once, the image remains rotated even after the product is turned off.

Note

- You cannot rotate the movies.
- You may not be able to rotate images shot using other products.
- When viewing rotated images on a computer, the images may be displayed in their original orientation depending on the software.

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Still Camera
DSC-RX10

Protect

Protects recorded images against accidental erasure. The mark is displayed on protected images.

1. MENU → (Playback) → [Protect] → desired setting.

Menu item details

Multiple Img.:
Applies or cancels the protection of the selected multiple images.
(1) Select the image to be protected, then press ● on the center of the control wheel. The ✓ mark is displayed in the check box. To cancel the selection, press ● again to remove the ✓ mark.
(2) To protect other images, repeat step (1).
(3) MENU → [OK] → Press ● on the center.

All in this Folder:
Protects all still images in the selected folder.

All with this date:
Protects all still images in the selected date range.

Cancel All in this Folder:
Cancels the protection of all still images in the selected folder.

Cancel All with this date:
Cancels the protection of all still images in the selected date range.

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Use

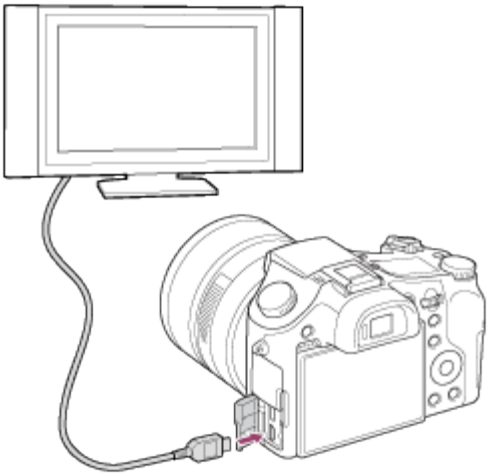
Still Camera

DSC-RX10

4K Still Image PB

Outputs still images in 4K resolution to an HDMI-connected TV that supports 4K.

1. Turn off this product and the TV.
2. Connect the HDMI terminals on this product and the TV using an HDMI cable (sold separately).



3. Turn on the TV and switch the input.
4. Set the ON/OFF (Power) switch to ON.
5. MENU → (Playback) → [4K Still Image PB] → [OK].

Note

- This menu is only available with 4K-compatible TVs. For details, refer to the operating instructions of the TV.

Related Topic

- Viewing images on an HD TV

Notes on use

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Help Guide

Use

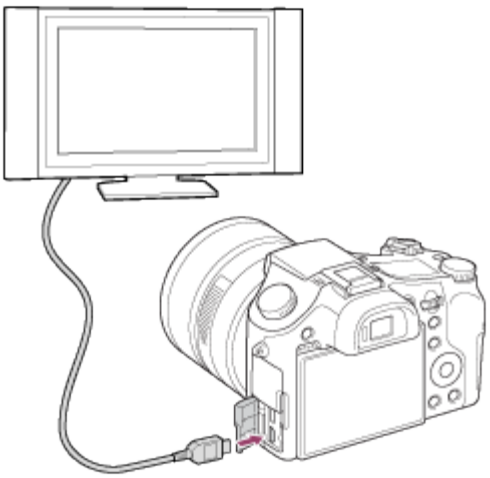
Still Camera

DSC-RX10

Viewing images on an HD TV

To view images stored on this product using a TV, an HDMI cable (sold separately) and an HD TV equipped with an HDMI jack are required.

1. Turn off both this product and the TV.
2. Connect the HDMI jack of this product to the HDMI jack of the TV using an HDMI cable (sold separately).



3. Turn on the TV and switch the input.
4. Set the ON/OFF (Power) switch to ON.
   Images shot with the product appear on the TV screen.

Hint

- This product is compatible with the “PhotoTV HD” standard. If you connect Sony PhotoTV HD-compatible devices using an HDMI cable (sold separately), the TV is set to the image quality suitable for viewing still images, and a whole new world of photos can be enjoyed in breathtaking high quality.
- “PhotoTV HD” allows for a highly-detailed, photo-like expression of subtle textures and colors.
- For details, refer to the operating instructions supplied with the compatible TV.

Note

- Do not connect this product and another device using the output terminals of both. Doing so

may cause a malfunction.

- Some devices may not work properly when connected to this product. For example, they may not output video or audio.
- Use an HDMI cable with the HDMI logo or a genuine Sony cable.
- Use an HDMI cable that is compatible with the HDMI jack of the product and the HDMI jack of the TV.

Notes on use

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Use
Still Camera
DSC-RX10

Viewing images on a “BRAVIA” Sync-compatible TV

By connecting this product to a TV that supports “BRAVIA” Sync using an HDMI cable (sold separately), you can operate this product with the TV Remote Control.

1. Turn off both this product and the TV.
2. Connect the HDMI jack of the product to the HDMI jack of the TV using an HDMI cable (sold separately).
3. Turn on the TV and switch the input.
4. Set the ON/OFF (Power) switch to ON.
5. MENU → (Setup) → [CTRL FOR HDMI] → [On].
6. Press the SYNC MENU button on the TV Remote Control, and select the desired mode.

Note

- Only TVs that support “BRAVIA” Sync can provide SYNC MENU operations. For details, refer to the operating instructions supplied with the TV.
- If the product performs unwanted operations in response to the TV Remote Control when the product is connected to another manufacturer’s TV using an HDMI connection, select MENU → (Setup) → [CTRL FOR HDMI] → [Off].

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DSC-RX10

Monitor Brightness

You can adjust the brightness of the screen.

1. MENU → (Setup) → [Monitor Brightness] → desired setting.

Menu item details

Auto (default setting):
Adjusts the brightness automatically.
Manual:
Adjusts the brightness within the range of –2 to +2.
Sunny Weather:
Sets the brightness appropriately for shooting outdoors.

Note

- The [Sunny Weather] setting is too bright for shooting indoors. Set [Monitor Brightness] to [Manual] for indoor shooting.
- Do not cover the light sensor with your hand, etc., when [Monitor Brightness] is set to [Auto].

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Use

Still Camera

DSC-RX10

Viewfinder Bright.

When using an electronic viewfinder, this product adjusts the brightness of the electronic viewfinder.

1. MENU → (Setup) → [Viewfinder Bright.] → desired setting.

Menu item details

Auto (default setting):

Adjusts the brightness of the electronic viewfinder automatically.

Manual:

Selects the brightness of the electronic viewfinder from the range –2 to +2.

Notes on use

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Still Camera
DSC-RX10

Finder Color Temp.

Adjusts the color temperature of the electronic viewfinder.

1. MENU → (Setup) → [Finder Color Temp.] → desired setting.

Menu item details

2 to +2:

When you select “ ,” the viewfinder screen changes to a warmer color, and when you select “+,” it changes to a colder color.

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Still Camera
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Volume Settings

Adjusts the sound volume.

1. MENU → (Setup) → [Volume Settings] → desired setting.

Adjusting the volume during playback

Press the bottom of the control wheel while playing back movies to display the operation panel, then adjust the volume. You can adjust the volume while listening to the actual sound.

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Audio signals

Selects whether the product produces sound or not when you operate the product.

1. MENU → (Setup) → [Audio signals] → desired setting.

Menu item details

On (default setting):
Produces sound when you operate the product.
Off:
Does not produce sound when you operate the product.

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Upload Settings(Eye-Fi)

Sets whether to use the upload function when using an Eye-Fi card (commercially available). This item appears when an Eye-Fi card is inserted into the product's memory card slot.

1. MENU → (Setup) → [Upload Settings] → desired setting.
2. Set your Wi-Fi network or destination on the Eye-Fi card.
   For details, refer to the manual supplied with the Eye-Fi card.
3. Insert the Eye-Fi card you have set up into the product, and shoot still images.
   Images are transferred to your computer, etc., automatically via the Wi-Fi network.

Menu item details

On (default setting):
Enables the upload function.
Off:
Disables the upload function
Communication status screen display
: Standby. No images are to be sent.
: Upload standby.
: Connecting.
: Uploading.
: Error

Note

- Eye-Fi cards are only sold in certain countries/regions.
- For more information on Eye-Fi cards, please contact the manufacturer or vendor directly.
- Eye-Fi cards can be used only in the countries/regions where they were purchased. Use Eye-Fi cards in accordance with the law of the countries/regions where you purchased the card.
- Eye-Fi cards are equipped with a wireless LAN function. Do not insert an Eye-Fi card into the product on an airplane. When an Eye-Fi card is inserted into the product, set [Upload Settings] to [Off]. When the upload function is set to [Off], the OFF indicator will be displayed on the product.
- Power save mode will not function during uploading.
- If (error) is displayed, remove the memory card and reinsert it, or turn the product off

and then on again. If the indicator appears again, the Eye-Fi card may be damaged.

- Wireless LAN communication may be influenced by other communication devices. If the communication status is poor, move closer to the access point to be connected.
- This product does not support Eye-Fi “Endless Memory Mode.” Before using an Eye-Fi card, be sure that “Endless Memory Mode” is turned off.

Notes on use

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Still Camera
DSC-RX10

Tile Menu

Selects whether to always display the first screen of the menu when you press the MENU button.

1. MENU → (Setup) → [Tile Menu] → desired setting.

Menu item details

On:

Always displays the first screen of the menu (Tile Menu).

Off (default setting):

Deactivates the Tile Menu display.

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Help Guide

Use

Still Camera

DSC-RX10

Mode Dial Guide

You can display the description of a shooting mode when you turn the mode dial and change the settings available for that shooting mode.

1. MENU → (Setup) → [Mode Dial Guide] → desired setting.

Menu item details

On:

Displays the Mode Dial Guide.

Off (default setting):

Does not display the Mode Dial Guide.

Notes on use

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Still Camera
DSC-RX10

Delete confirm.

You can set whether [Delete] or [Cancel] is selected as the default setting on the delete confirmation screen.

1. MENU → (Setup) → [Delete confirm.] → desired setting.

Menu item details

"Delete" first:
[Delete] is selected as the default setting.
"Cancel" first (default setting):
[Cancel] is selected as the default setting.

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Display Quality

You can change the display quality.

1. MENU → (Setup) → [Display Quality] → desired setting.

Menu item details

High:
Displays in high quality.
Standard:
Displays in standard quality.

Note

- When [High] is set, battery consumption will be higher than when [Standard] is set.

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Pwr Save Start Time

You can set time intervals to switch to power save mode. To return to shooting mode, perform an operation such as pressing the shutter button halfway down.

1. MENU → (Setup) → [Pwr Save Start Time] → desired setting.

Menu item details

30 Min/5 Min/2 Min/1 Min (default setting)/10 Sec

Note

- Turn off the product when you do not use it for a long time.
- The auto power off function does not activate during playing back slideshow or recording movies, or when connected to a computer.

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Still Camera
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PAL/NTSC Selector

Plays back movies recorded with the product on a PAL/NTSC system TV.

1. MENU → (Setup) → [PAL/NTSC Selector] → [Enter]

Note

- This function is provided with 1080 50i-compatible devices only. It is not provided with 1080 60i-compatible devices. The 1080 50i-compatible devices have a “50i” mark on the bottom of the product.
- If you insert a memory card that has previously been formatted with the PAL system, a message telling you that you must re-format the card appears. When you record using the NTSC system, re-format the memory card or use another memory card.
- When the NTSC mode is selected, the “Running on NTSC.” message always appears on the start-up screen each time you turn the product on.

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Demo Mode

The [Demo Mode] function displays the movies recorded on the memory card automatically (demonstration), when the camera has not been operated for a certain time.
Normally select [Off].

1. MENU → (Setup) → [Demo Mode] → desired setting.

Menu item details

On:
The movie playback demonstration starts automatically if the product is not operated for about one minute. Only protected AVCHD movies are played back.
Set the view mode to [AVCHD View], and protect the movie file with the oldest recorded date and time.
Off (default setting):
Does not show the demonstration.

Note

- You can set this item only when the product is powered by the AC-PW20 AC Adaptor (sold separately).
- Even if [On] is selected, the product does not start a demonstration if there is no movie file on the memory card.
- When [On] is selected, the product does not switch to power save mode.

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HDMI Resolution

When you connect the product to a High Definition (HD) TV with HDMI terminals using an HDMI cable (sold separately), you can select HDMI Resolution to output images to the TV.

1. MENU → (Setup) → [HDMI Resolution] → desired setting.

Menu item details

Auto (default setting):
The product automatically recognizes an HD TV and sets the output resolution.
1080p:
Outputs signals in HD picture quality (1080p).
1080i:
Outputs signals in HD picture quality (1080i).

Note

- If the images are not displayed properly using the [Auto] setting, select either [1080i] or [1080p], based on which TV is to be connected.

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CTRL FOR HDMI

When connecting this product to a “BRAVIA” Sync-compatible TV using an HDMI cable (sold separately), you can operate this product by aiming the TV remote control at the TV.

1. MENU → (Setup) → [CTRL FOR HDMI] → desired setting.

Menu item details

On (default setting):
You can operate this product with a TV’s remote control.
Off:
You cannot operate this product with a TV’s remote control.

Note

- [CTRL FOR HDMI] is available only with a “BRAVIA” Sync-compatible TV.

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HDMI Info. Display

Selects whether to display the shooting information when this product and the TV are connected using an HDMI cable (sold separately).

1. MENU → (Setup) → [HDMI Info. Display] → desired setting.

Menu item details

On (default setting):
Displays the shooting information of the played back image.
Off:
Does not display the shooting information of the played back image.

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DSC-RX10

USB Connection

Selects the appropriate USB connection method for each computer or USB device connected to this product.

1. MENU → (Setup) → [USB Connection] → desired setting.

Menu item details

Auto (default setting):
Establishes a Mass Storage or MTP connection automatically, depending on the computer or other USB devices to be connected. Windows 7 or Windows 8 computers are connected in MTP, and their unique functions are enabled for use.
Mass Storage:
Establishes a Mass Storage connection between this product, a computer, and other USB devices.
MTP:
Establishes an MTP connection between this product, a computer, and other USB devices. Windows 7 or Windows 8 computers are connected in MTP, and their unique functions are enabled for use. With computers running a different OS (Windows Vista, Mac OS X), the AutoPlay Wizard appears, and the still images in the recording folder on this product are imported to the computer.

Note

- If Device Stage* is not displayed with Windows 7 or Windows 8, set [USB Connection] to [Auto].

* Device Stage is a menu screen used to manage connected devices, such as a camera (Function of Windows 7 or Windows 8).

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DSC-RX10

USB LUN Setting

Enhances compatibility by limiting of USB connection functions.

1. MENU → (Setup) → [USB LUN Setting] → desired setting.

Menu item details

Multi (default setting):
Normally, use [Multi].
Single:
Set [USB LUN Setting] to [Single] only if you cannot make a connection.

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Use

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Language

Selects the language to be used in the menu items, warnings and messages.

1. MENU → (Setup) → [Language] → desired language.

Notes on use

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Still Camera
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Date/Time Setup

Sets the date and time again.

1. MENU → (Setup) → [Date/Time Setup] → desired setting.

Menu item details

Daylight Savings:
Selects Daylight Savings [On]/[Off].
Date/Time:
Sets the date and time.
Date Format:
Selects the date and time display format.

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Area Setting

Sets the area where you are using the product.

1. MENU → (Setup) → [Area Setting] → desired area.

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Use

Still Camera

DSC-RX10

Format

Formats (initializes) the memory card. When you use a memory card with this product for the first time, it is recommended that you format the card using the product for stable performance of the memory card. Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save valuable data on a computer, etc.

1. MENU → (Setup) → [Format].

Note

- Formatting permanently erases all data including even protected images.

Notes on use

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DSC-RX10

File Number

Selects how to assign file numbers to recorded images.

1. MENU → (Setup) → [File Number] → desired setting.

Menu item details

Series (default setting):
Even if you change the recording destination folder or change the memory card, the product continues to assign numbers to files in sequence.
(If there is a larger file number on the new memory card than the latest image file, a number one higher than the largest number is assigned.)
Reset:
The product resets numbers when a file is recorded in a new folder and assigns numbers to files starting with “0001.”
(When the recording folder contains a file, a number one higher than the largest number is assigned.)

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Use

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Select REC Folder

You can change the recording folder to which images are recorded.

1. MENU → (Setup) → [Select REC Folder] → desired folder.

Note

- You cannot select the folder when you select the [Date Form] setting.

Notes on use

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Still Camera
DSC-RX10

New Folder

Creates a new folder in the memory card. A new folder is created with a folder number one greater than the largest folder number currently used. Images are recorded in the newly created folder. A folder for still images and a folder for MP4 movies that have the same number are created at the same time.

1. MENU → (Setup) → [New Folder].

Note

- When you insert a memory card that was used with other equipment into this product and shoot images, a new folder may be automatically created.
- Up to 4,000 images in total can be stored in one folder. When the folder capacity is exceeded, a new folder may be automatically created.

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DSC-RX10

Folder Name

Still images you shoot are recorded in a folder that is automatically created under the DCIM folder on the memory card. You can change the way folder names are assigned.

1. MENU → (Setup) → [Folder Name] → desired setting.

Menu item details

Standard Form (default setting):
The folder name form is as follows: folder number + MSDCF.
Example: 100MSDCF
Date Form:
The folder name form is as follows: folder number + Y (the last digit)/MM/DD.
Example: 10030405 (Folder number: 100, date: 04/05/2013)

Note

- The MP4 movie folder form is fixed as “folder number + ANV01”.

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Use
Still Camera
DSC-RX10

Recover Image DB

If image files were processed on a computer, problems may occur in the image database file. In such cases, the images on the memory card will not be played back on this product. If these problems happen, repair the file using [Recover Image DB].

1. MENU → (Setup) → [Recover Image DB] → [Enter].

Note

- Use a sufficiently charged battery pack. Low battery power during repairing can cause damage to data.

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Use

Still Camera

DSC-RX10

Display Media Info.

Displays the recordable time of movies and the number of recordable still images for the inserted memory card.

1. MENU → (Setup) → [Display Media Info.].

Notes on use

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Use

Still Camera

DSC-RX10

Version

Displays the version of this product’s software.

1. MENU → (Setup) → [Version].

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Use
Still Camera
DSC-RX10

Setting Reset

Resets the product to the default settings. Even if you activate [Setting Reset], the recorded images are retained.

1. MENU → (Setup) → [Setting Reset] → desired setting.

Menu item details

Camera Settings Reset:
Initializes the main shooting settings to the default settings.
Initialize:
Initializes all the settings to the default settings.

Note

- Be sure not to eject the battery pack while resetting.

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Use

Still Camera

DSC-RX10

“PlayMemories Mobile”

To use [Ctrl w/ Smartphone] or [Send to Smartphone], etc., the application “PlayMemories Mobile” should be installed on your smartphone.

Download and install the application “PlayMemories Mobile” from your smartphone’s application store. If “PlayMemories Mobile” is already installed on your smartphone, be sure to update it to the latest version.
For details on “PlayMemories Mobile,” refer to the support page (http://www.sony.net/pmm/).

Notes on use

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Use

Still Camera

DSC-RX10

Connecting an Android smartphone to this product

1. Launch “PlayMemories Mobile” on your smartphone.
2. Select the model name of this product (DIRECT-xxxx: xxxx).



3. Input the password that is displayed on this product.



The smartphone is connected to the product.

Notes on use

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Use

Still Camera

DSC-RX10

Connecting the product to an iPhone or iPad

1. Select the model name of this product (DIRECT-xxxx: xxxx) on the Wi-Fi setting screen of your iPhone or iPad.



2. Input the password displayed on this product.

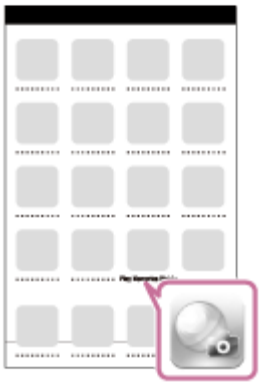


The iPhone or iPad is connected to the product.

3. Confirm that your iPhone or iPad was connected to the “SSID” shown on this product.



4. Return to the “Home” screen and launch “PlayMemories Mobile.”



Notes on use

4-477-079-12(1)

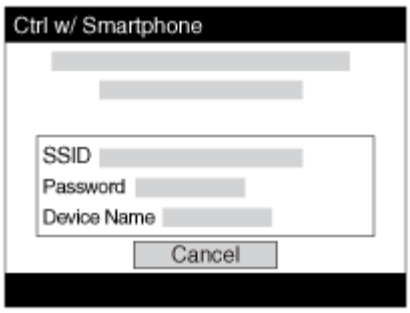
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Help Guide
Use
Still Camera
DSC-RX10

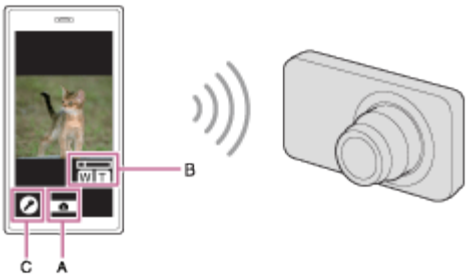
Ctrl w/ Smartphone

You can use a smartphone as the remote controller for this product and shoot still images. Still images shot via remote control are sent to the smartphone from the product.
The application “PlayMemories Mobile” must be installed on your smartphone.

1. MENU → (Wireless) → [Ctrl w/ Smartphone].
2. When the product is ready for the connection, an information screen appears on the product. Connect the smartphone and the product using that information.
   The setting procedure varies depending on your smartphone.



3. Check the composition of the image on the smartphone screen, and then press the shutter button (A) on the smartphone to shoot an image.
   - Use the zoom button (B) to zoom in/out.
   - Use button (C) to change the [Flash] and [Self-Timer] settings. You can also change the image saving settings.



Note

- This product shares the connection information for [Send to Smartphone] with a device that has permission to connect. If you want to change the device that is permitted to connect to

the product, reset the connection information by following these steps. MENU → (Wireless) → [SSID/PW Reset]. After resetting the connection information, you must register the smartphone again.

Related Topic

- Connecting an Android smartphone to this product
- Connecting the product to an iPhone or iPad
- “PlayMemories Mobile”

Notes on use

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Use

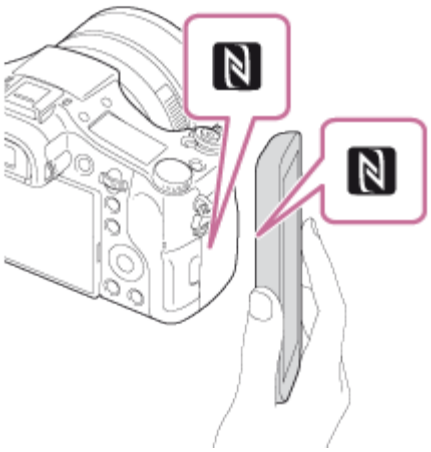
Still Camera

DSC-RX10

One-touch connection with an NFC-enabled Android smartphone (NFC One-touch remote)

You can connect this product and an NFC-enabled Android smartphone with one touch, without performing a complex setup operation.

1. Activate the NFC function of the smartphone.
2. Switch this product to shooting mode.
   - The NFC function is available only when the (N mark) is displayed on the screen.
3. Touch the product to the smartphone.



The smartphone and the product are connected, and “PlayMemories Mobile” launches on the smartphone.

- Touch the smartphone to the product for 1-2 seconds until “PlayMemories Mobile” launches.

About “NFC”

NFC is a technology that enables short-range wireless communication between various devices, such as mobile phones or IC tags, etc. NFC makes data communication simpler with just a touch on the designated touch-point.

- NFC (Near Field Communication) is an international standard of short-range wireless communication technology.

Note

- If you cannot make a connection, do as the following:

- Launch “PlayMemories Mobile” on your smartphone, and then move the smartphone slowly toward the (N mark) of this product.
- If the smartphone is in a case, remove it.
- If the product is in a case, remove it.
- Check whether the NFC function is activated on your smartphone.

- When [Airplane Mode] is set to [On], you cannot connect this product and the smartphone. Set [Airplane Mode] to [Off].
- If this product and the smartphone are connected when the product is in playback mode, the displayed image is sent to the smartphone.

Related Topic

- Airplane Mode
- Ctrl w/ Smartphone

Notes on use

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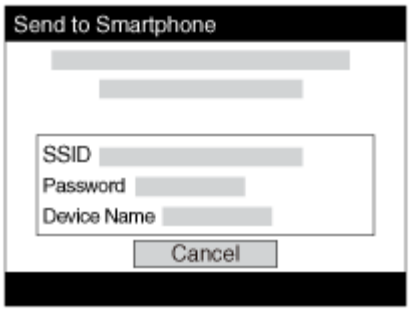
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Use
Still Camera
DSC-RX10

Send to Smartphone

You can transfer still images to a smartphone and view them. Download the application “PlayMemories Mobile” to your smartphone from the application store.

1. MENU → (Wireless) → [Send to Smartphone] → desired setting.
   - If you press the (Send to Smartphone) button in playback mode, the setting screen for [Send to Smartphone] will appear.

2. If the product is ready for the transfer, the information screen appears on the product. Connect the smartphone and the product using that information.
   The setting method for connecting the smartphone and the product varies depending on the smartphone.



Menu item details

Select on This Device:
Selects an image on the product to be transferred to the smartphone.
(1) Select from among [This Image], [All Still Images on Date]/[All Movie(MP4) on Date], [All Images on This Date] or [Multiple Images].
(2) If you select [Multiple Images], select the desired images using ● on the control wheel, then press MENU → [Enter].
Select on Smartphone:
Displays all images recorded on the product’s memory card on the smartphone.

Note

- You can select an image size to be sent to the smartphone from [Original], [2M] or [VGA]. To change the image size, refer to the following steps.
  – For Android smartphone

Start “PlayMemories Mobile,” and change the image size by [Settings] → [Copy Image Size].

– For iPhone/iPad

Select “PlayMemories Mobile” in the setting menu, and change the image size by [Copy Image Size].

- Some images may not be displayed on the smartphone depending on the recording format.
- RAW images are converted to JPEG format when they are sent.
- You cannot send AVCHD format movies.
- This product shares the connection information for [Send to Smartphone] with a device that has permission to connect. If you want to change the device that is permitted to connect to the product, reset the connection information by following these steps. MENU → [Wireless] → [SSID/PW Reset]. After resetting the connection information, you must register the smartphone again.
- When [Airplane Mode] is set to [On], you cannot connect this product and the smartphone. Set [Airplane Mode] to [Off].

Related Topic

- Connecting an Android smartphone to this product
- Connecting the product to an iPhone or iPad
- “PlayMemories Mobile”

Notes on use

4-477-079-12(1)

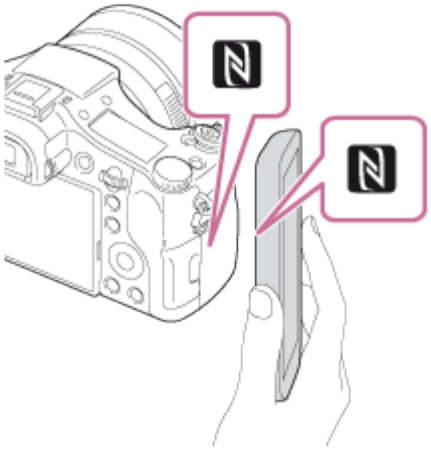
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Use
Still Camera
DSC-RX10

Sending images to an Android smartphone (NFC One-touch Sharing)

With just one touch, you can connect this product and an NFC-enabled Android smartphone, and send an image displayed on the product screen directly to the smartphone.

1. Activate the NFC function of the smartphone.
2. Display a single image on the product.
3. Touch the smartphone to the product.



The product and the smartphone are connected, and “PlayMemories Mobile” automatically launches on the smartphone, and then the displayed image is sent to the smartphone.

- Before you touch the smartphone, cancel the sleep and lock-screen functions of the smartphone.
- The NFC function is available only when the (N mark) is displayed on the product.
- Touch the smartphone to the product for 1-2 seconds until “PlayMemories Mobile” launches.
- To transfer two or more images, select MENU → (Wireless) → [Send to Smartphone] to select images. After the connection enabled screen appears, use NFC to connect the product and the smartphone.

About “NFC”

NFC is a technology that enables short-range wireless communication between various devices, such as mobile phones or IC tags, etc. NFC makes data communication simpler with just a

touch on the designated touch-point.

Note

- You can select an image size to be sent to the smartphone from [Original], [2M], or [VGA]. To change the image size, refer to the following steps.
  - For Android smartphone
    Start “PlayMemories Mobile,” and change the image size by [Settings] → [Copy Image Size].
  - For iPhone/iPad
    Select “PlayMemories Mobile” in the setting menu, and change the image size by [Copy Image Size].
- RAW images are converted to JPEG format when they are sent.
- If the Image Index is displayed on the product, you cannot transfer images using the NFC function.
- If you cannot make a connection, perform the following:
  - Launch “PlayMemories Mobile” on your smartphone, and then move the smartphone slowly toward the (N mark) of this product.
  - If the smartphone is in a case, remove it.
  - If the product is in a case, remove it.
  - Confirm that the NFC function is activated on the smartphone.
- When [Airplane Mode] is set to [On], you cannot connect the product and the smartphone. Set [Airplane Mode] to [Off].
- You cannot send AVCHD format movies.

Related Topic

- Connecting an Android smartphone to this product
- Connecting the product to an iPhone or iPad
- Airplane Mode
- Send to Smartphone
- “PlayMemories Mobile”

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Help Guide
Use
Still Camera
DSC-RX10

Send to Computer

You can transfer images stored in the product to a computer connected to a wireless access point or wireless broadband router and easily make backup copies using this operation. Before starting this operation, install “PlayMemories Home” on your computer and register the access point on the product.

1. Start your computer.
2. MENU → (Wireless) → [Send to Computer].

Note

- Depending on the application settings of your computer, the product will turn off after saving the images to your computer.
- You can transfer images from the product to only one computer at a time.
- If you want to transfer images to another computer, connect the product and the computer via a USB connection and follow the instructions in “PlayMemories Home.”

Related Topic

- Installing “PlayMemories Home”
- WPS Push
- Access Point Set.

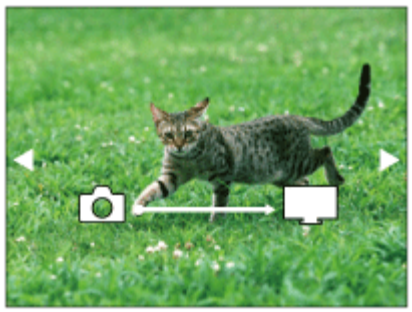
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Use
Still Camera
DSC-RX10

View on TV

You can view images on a network-enabled TV by transferring them from the product without connecting the product and TV with a cable. For some TVs, you may need to perform operations on the TV. For details, refer to the operating instructions supplied with the TV.

1. MENU → (Wireless) → [View on TV] → desired device to be connected.
2. When you want to play back images using slideshow, press ● on the center of the control wheel.



- To display the next/previous image manually, press the right/left side of the control wheel.
- To change the device to be connected, press the bottom side of the control wheel, then select [Device list].

Slideshow settings

You can change the slideshow settings by pressing the bottom side of the control wheel.

Playback Selection:
Selects the group of images to be shown.
Folder View(Still):
Selects from [All] and [All in Folder].
Date View:
Selects from [All] and [All in Date Rng.].
Interval:
Selects from [Short] and [Long].
Effects*:
Select from [On] and [Off].

Playback Image Size:

Select from [HD] and [4K].

*The settings are effective only for BRAVIA TV which is compatible with the functions.

Note

- You can use this function on a TV that supports DLNA renderer.
- You can view images on a Wi-Fi Direct-enabled TV or network-enabled TV (including cable TV).
- If you connect TV and this product and do not use Wi-Fi Direct, you need to register your access point first.
- Displaying the images on the TV may take time.
- Movies cannot be shown on a TV via Wi-Fi. Use an HDMI cable (sold separately).

Related Topic

- WPS Push
- Access Point Set.

Notes on use

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Help Guide

Use

Still Camera

DSC-RX10

Airplane Mode

When you board an airplane, etc., you can turn off all Wi-Fi functions temporarily.

1. MENU → (Wireless) → [Airplane Mode] → desired setting.
   If you set [Airplane Mode] to [On], an airplane mark will be displayed on the screen.

Notes on use

4-477-079-12(1)

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Help Guide
Use
Still Camera
DSC-RX10

WPS Push

If your access point has the WPS button, you can register the access point to this product easily by pushing the WPS button.

1. MENU → (Wireless) → [WPS Push].
2. Press the WPS button on the access point you want to register.

Note

- [WPS Push] works only if the security setting of your access point is set to WPA or WPA2 and your access point supports the WPS button method. If the security setting is set to WEP or your access point does not support the WPS button method, perform [Access Point Set.].
- For details about the available functions and settings of your access point, see the access point operating instructions or contact the administrator of the access point.
- A connection may not be enabled depending on the surrounding conditions, such as the type of wall material or if there is an obstruction or poor wireless signal between the product and access point. If that happens, change the location of the product or move the product closer to the access point.

Related Topic

Access Point Set.

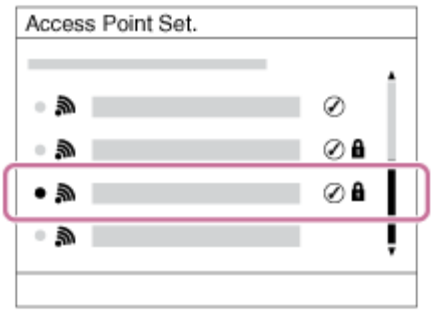
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Use
Still Camera
DSC-RX10

Access Point Set.

You can register your access point manually. Before starting the procedure, check the SSID name of the access point, security system, and password. The password may be preset in some devices. For details, see the access point operating instructions, or consult the access point administrator.

1. MENU → (Wireless) → [Access Point Set.].
2. Select the access point you want to register.

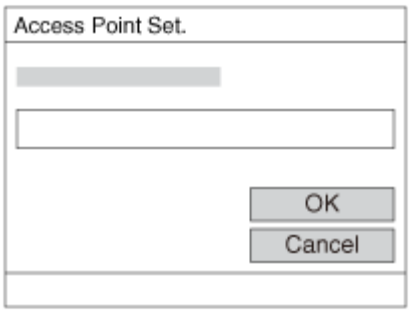


When the desired access point is displayed on the screen: Select the desired access point.
When the desired access point is not displayed on the screen: Select [Manual Setting] and set the access point.

*For the input method, refer to "How to use the keyboard."

- If you select [Manual Setting], input the SSID name of the access point, then select the security system.

3. Input the password, and select [OK].

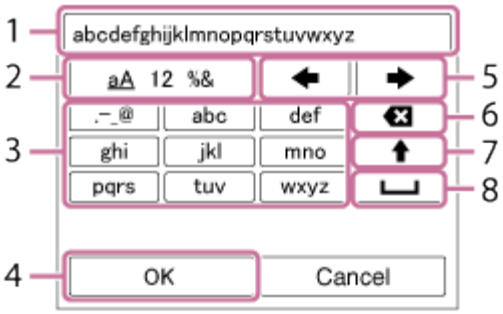


- Access points without the mark do not require a password.

4. Select [OK].

How to use the keyboard

When manual character entry is required, a keyboard is displayed on the screen.



1. **Input box** The characters you entered are displayed.
2. **Switch character types** Each time you press ● on the center of the control wheel, the character type switches among alphabet letters, numerals and symbols.
3. **Keyboard** Each time you press ● on the center, the character that you enter will be displayed.

   ### For example: If you want to enter “abd”

   Select the key for “abc” and press ● once to display “a” → select “ ➡ ”((5) Move cursor) and press ● → select the key for “abc” and press ● twice to display “b” → select the key for “def” and press ● once to display “d”.
4. **Finalize** Finalizes the entered characters.
5. **Move cursor** Moves the cursor in the input box to the right or left.
6. **Delete** Deletes the character preceding the cursor.
7. ⬆ Switches the next character to a capital or small letter.
8. ␣ Enters a space.

- To cancel the input, select [Cancel].

Other setting items

Depending on the status or the setting method of your access point, you may want to set more items.

WPS PIN:

Displays the PIN code you enter into the connected device.

Priority Connection:

Select [On] or [Off].

IP Address Setting:

Select [Auto] or [Manual].

IP Address:

If you are entering the IP address manually, enter the set address.

Subnet Mask / Default Gateway:

When you set [IP Address Setting] to [Manual], enter the IP address to match your network environment.

Note

- To give the registered access point priority, set [Priority Connection] to [On].

Related Topic

- WPS Push

Notes on use

4-477-079-12(1)

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Use

Still Camera

DSC-RX10

Edit Device Name

You can change the device name under Wi-Fi Direct.

1. MENU → (Wireless) → [Edit Device Name].
2. Select the input box, then input the device name → [OK].
   - For input method, refer to “How to use the keyboard.”

Related Topic

- WPS Push
- Access Point Set.

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Use

Still Camera

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Disp MAC Address

Displays the MAC address of this product.

1. MENU → (Wireless) → [Disp MAC Address].

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4-477-079-12(1)

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Use
Still Camera
DSC-RX10

SSID/PW Reset

This product shares the connection information for [Send to Smartphone] and [Ctrl w/ Smartphone] with a device that has permission to connect. If you want to change the device that is permitted to connect, reset the connection information.

1. MENU → (Wireless) → [SSID/PW Reset] → [OK].

Note

- After resetting the connection information, and if you connect this product to the smartphone, you must register the smartphone again.

Related Topic

- Ctrl w/ Smartphone
- Send to Smartphone

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Reset Network Set.

Resets all the network settings to default settings.

1. MENU → (Wireless) → [Reset Network Set.] → [OK].

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Use

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DSC-RX10

Recommended computer environment

The following computer environment is recommended when using the software “PlayMemories Home” and “Image Data Converter”.

Windows

OS (pre-installed):
Windows Vista SP2*/Windows 7 SP1/Windows 8

“PlayMemories Home”
CPU:
Intel Pentium III 800 MHz or faster
(For playing/editing the High Definition movies: Intel Core Duo 1.66 GHz or faster/Intel Core 2 Duo 1.66 GHz or faster, Intel Core 2 Duo 2.26 GHz or faster (AVC HD (FX/FH)), Intel Core 2 Duo 2.40 GHz or faster (AVC HD PS))
Memory:
At least 1 GB of memory
Hard Disk (Disk space required for installation):
Approximately 600 MB
Display:
At least 1024 × 768 dots

“Image Data Converter”
CPU:
Pentium 4 or faster
Memory:
At least 1 GB of memory
Display:
At least 1024 × 768 dots

* Starter (Edition) is not supported.

Mac

OS (pre-installed):
Mac OS X v10.6 – v10.8

CPU:

Intel processor, such as Intel Core Solo, Core Duo and Core 2 Duo

“PlayMemories Home”

Hard Disk (Disk space required for installation):

100 MB

Display:

At least 1024 × 768 dots

“Image Data Converter”

Memory:

At least 1 GB of memory is recommended.

Display:

At least 1024 × 768 dots

Note

- Operation is not assured in an environment based on an upgrade of the operating systems described above or in a multi-boot environment.
- If you connect two or more USB devices to one computer at the same time, this product may not operate, depending on the types of USB devices you are using.
- When your computer resumes activity from suspend or sleep mode, communication between the product and your computer may not recover at the same time.

Notes on use

4-477-079-12(1)

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“PlayMemories Home”

With “PlayMemories Home,” you can do the following:

- You can import images shot with this product to your computer.
- You can play back the images imported to your computer.
- You can share your images using “PlayMemories Online.”

Also for Windows, you can do the following:

- You can organize images on the computer on a calendar by shooting date to view them.
- You can edit and correct images, such as by trimming and resizing.
- You can create a Blu-ray Disc, AVCHD disc or DVD-Video disc from AVCHD movies imported to a computer.
- You can upload images to a network service. (An internet connection is required.)
- For other details, please refer to the Help of “PlayMemories Home.”

Notes on use

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Use

Still Camera

DSC-RX10

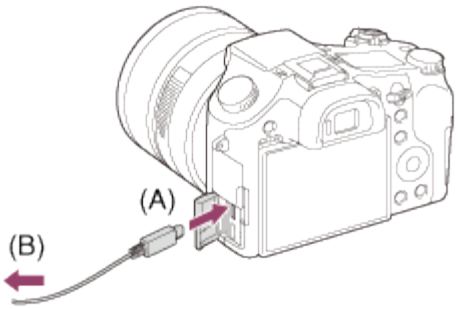
Installing “PlayMemories Home”

1. Using the Internet browser on your computer, go to the following URL, then click [Install] → [Run].
   www.sony.net/pm/
   If “PMB” (Picture Motion Browser) supplied with a product that was purchased before 2011 has already been installed on the computer, “PMB” will be overwritten by “PlayMemories Home.” Some “PlayMemories Home” functions differ from those of “PMB,” but please use “PlayMemories Home.”
2. Follow the instructions on the screen to complete the installation.

- For details on “PlayMemories Home,” refer to Help of “PlayMemories Home.”

Hint

When you connect this product to a computer, some functions may be added to “PlayMemories Home.” If “PlayMemories Home” has already been installed on your computer, we recommend that you connect this product and your computer once.



A: To the USB jack of the computer
B: To the multi-connector

Note

- Log on as Administrator.
- It may be necessary to restart your computer. When the restart confirmation message appears, restart the computer following the instructions on the screen.
- DirectX may be installed depending on your computer’s system environment.

Notes on use

4-477-079-12(1)

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Help Guide
Use
Still Camera
DSC-RX10

Software for Mac computers

For details on software for Mac computers, access the following URL:
http://www.sony.co.jp/imsoft/Mac/

Wireless Auto Import

“Wireless Auto Import” is required if you are using a Mac computer and want to import images to the computer using Wi-Fi function. Download “Wireless Auto Import” from the URL above, and install it on your Mac computer. For details, see Help for “Wireless Auto Import.”

Note

- The software that can be used varies depending on the region.

Related Topic

Send to Computer

Notes on use
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Help Guide



Use

Still Camera

DSC-RX10

“Image Data Converter”

With “Image Data Converter,” you can do the following:

- You can edit images recorded in RAW format with various corrections, such as tone curve and sharpness.
- You can adjust images with white balance, exposure, and [Creative Style], etc.
- You can save the still images displayed and edited on a computer.
  You can either save the still image as RAW format or save it in the general file format.
- You can display and compare the RAW images and JPEG images recorded by this product.
- You can rank images in five grades.
- You can apply color labels.

Notes on use

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Use
Still Camera
DSC-RX10

Installing “Image Data Converter”

1. Download and install the software by accessing the following URL (English only).
   http://www.sony.co.jp/ids-se/

Note

- Log on as Administrator.

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Help Guide

Use

Still Camera

DSC-RX10

Accessing “Image Data Converter Guide”

Windows:

[Start] → [All Programs] → [Image Data Converter] → [Help] → [Image Data Converter Ver.4].

- For Windows 8, start [Image Data Converter Ver.4], and select [Help] from the menu bar → [Image Data Converter Guide].

Mac:

Finder → [Applications] → [Image Data Converter] → [Image Data Converter Ver.4], and select [Help] from the menu bar → [Image Data Converter Guide].

- For details on operation, you can also refer to the “Image Data Converter” support page (English only).
  http://www.sony.co.jp/ids-se/

Notes on use

4-477-079-12(1)

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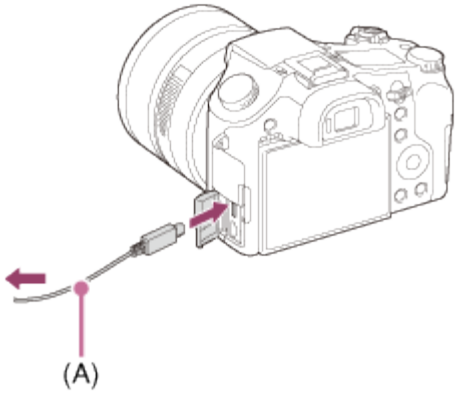
Use

Still Camera

DSC-RX10

Connecting the product to a computer

1. Insert a sufficiently charged battery pack into the product.
2. Turn on the product and the computer.
3. Connect the product and your computer using the micro USB cable **(A)** (supplied).



Related Topic

- USB Connection
- USB LUN Setting

Notes on use

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Still Camera
DSC-RX10

Importing images to the computer

“PlayMemories Home” allows you to easily import images. For details on “PlayMemories Home” functions, see the Help of “PlayMemories Home.”

Importing images to the computer without using “PlayMemories Home” (For Windows)

When the AutoPlay Wizard appears after making a USB connection between this product and a computer, click [Open folder to view files] → [OK] → [DCIM] or [MP_ROOT]. Then copy the desired images to the computer.

- If Device Stage appears on a Windows 7 or Windows 8 computer, double-click [Browse Files] → media icon → folder in which the images you want to import are stored.

Importing images to the computer without using “PlayMemories Home” (For Mac)

Connect the product to your Mac computer. Double-click the newly recognized icon on the desktop → the folder in which the image you want to import is stored. Then drag and drop the image file on to the hard disk icon.

Note

- For operations such as importing AVCHD movies to the computer, use “PlayMemories Home.”
- Do not edit or otherwise process AVCHD movie files/folders from the connected computer. Movie files may be damaged or become unplayable. Do not delete or copy AVCHD movies on the memory card from the computer. Sony is not held liable for consequences resulting from such operations via the computer.

Notes on use
4-477-079-12(1)
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Help Guide
Use
Still Camera
DSC-RX10

Disconnecting the product from the computer

Disconnects the USB connection between this product and the computer.
Perform the procedures from step 1 to 2 below before performing the following operations:

- Disconnecting the cable.
- Removing a memory card.
- Turning off the product.

1. Click on the taskbar and then click the (disconnect) icon.
   - For Windows Vista, click on the taskbar.
2. Click the displayed message.

Note

- For Mac computers, drag and drop the icon of the memory card or the drive icon in the “Trash” icon. The product is disconnected from the computer.
- For Windows 7/Windows 8 computers, the disconnect icon may not appear. In that case, you can skip steps 1 and 2 above.

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4-477-079-12(1)
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Help Guide
Use
Still Camera
DSC-RX10

Disc type



High-definition image quality (HD)
A Blu-ray Disc enables you to record high definition image quality (HD) movies of a longer duration than DVD discs.



High-definition image quality (HD) (AVCHD recording disc)
High definition image quality (HD) movie can be recorded on DVD media, such as DVD-R discs, and a high definition image quality (HD) disc is created.

- You can play a high definition image quality (HD) disc on AVCHD format playback devices, such as a Sony Blu-ray Disc player and a PlayStation®3. You cannot play the disc on ordinary DVD players.



Standard definition image quality (STD)
Standard definition image quality (STD) movie converted from high definition image quality (HD) movie can be recorded on DVD media, such as DVD-R discs, and a standard image quality (STD) disc is created.

Hint

You can use the following types of 12 cm discs with “PlayMemories Home.” For Blu-ray discs, see “Creating Blu-ray Discs.”
DVD-R/DVD+R/DVD+R DL: Non-rewritable
DVD-RW/DVD+RW: Rewritable

- Always maintain your “PlayStation 3” to use the latest version of the “PlayStation 3” system software.
- “PlayStation 3” may not be available in some countries/regions.

Related Topic

- Creating Blu-ray Discs

Notes on use

4-477-079-12(1)

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Use
Still Camera
DSC-RX10

Selecting the disc creation method

You can create a disc from an AVCHD format movie recorded using this product. Depending on the disc type, playable devices may vary. Select a method suitable for your disc player.
For details on creating a disc using “PlayMemories Home,” see the Help of “PlayMemories Home.” (Only for Windows)



Creates a disc with high-definition image quality (HD)
Writable movie format: PS, FX, FH
Player: Blu-ray Disc playback devices (Sony Blu-ray Disc player, PlayStation®3, etc.)



Creates a disc with high-definition image quality (HD) (AVCHD recording disc)
Writable movie format: PS*, FX*, FH
Player: AVCHD format playback devices (Sony Blu-ray Disc player, PlayStation®3, etc.)



Creates a disc with standard definition image quality (STD)
Writable movie format: PS*, FX*, FH*
Player: Ordinary DVD playback devices (DVD player, computer that can play back DVD discs, etc.)

*You can create a disc with movies recorded in these formats using “PlayMemories Home” by down-converting the image quality.

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Help Guide
Use
Still Camera
DSC-RX10

Creating a disc with a device other than a computer

You can also create discs using a Blu-ray recorder, etc. Depending on which device you use, the types of disc that can be created vary.

Blu-ray recorder:



High-definition image quality (HD)



Standard definition image quality (STD)

HDD recorder, etc:



Standard definition image quality (STD)

Note

- When creating AVCHD discs using “PlayMemories Home” from movies recorded in [60p 28M(PS)]/[50p 28M(PS)], [60i 24M(FX)]/[50i 24M(FX)] or [24p 24M(FX)]/[25p 24M(FX)], the image quality is converted and it is not possible to create discs that have the original image quality. Converting the image quality takes time. To record movies with the original image quality, use Blu-ray Discs.
- To create a Blu-ray Disc from movies recorded in [60p 28M(PS)]/[50p 28M(PS)], you need to use a device that is compliant with AVCHD format Ver. 2.0. The created Blu-ray Disc can be played back only on a device that is compliant with AVCHD format Ver. 2.0.
- For details on how to create a disc, refer to the operating instructions of the device you use.

Notes on use
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Help Guide
Use
Still Camera
DSC-RX10

Creating Blu-ray Discs

You can create Blu-ray Discs from AVCHD movies imported to a computer. The computer must be capable of creating Blu-ray Discs. BD-R (not re-writable) or BD-RE (rewritable) discs can be used. Multi-session recordings cannot be made. To create Blu-ray Discs using “PlayMemories Home,” be sure to install the dedicated add-on software. For details, see the following URL:
http://support.d-imaging.sony.co.jp/BDUW/
To install, your computer must be connected to the Internet. For detailed operations, see the Help of “PlayMemories Home.”

Note

- To play back a Blu-ray Disc that was created using movies recorded in [60p 28M(PS)]/[50p 28M(PS)], you must use a device that is compliant with AVCHD format Ver. 2.0.

Notes on use
4-477-079-12(1)
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SONY

Help Guide

Use

Still Camera

DSC-RX10

Precautions

Backing up memory cards

Data may be corrupted in the following cases. Be sure to back up the data for protection.

- When the memory card is removed or the product is turned off during a read or write operation.
- When the memory card is used in locations subject to static electricity or electrical noise.

Creating an image database file

If you insert a memory card that does not contain an image database file into the product and turn on the power, the product automatically creates an image database file using some of the memory card's capacity. The process may take a long time and you cannot operate the product until the process is completed.
If a database file error occurs, export all images to your computer using "PlayMemories Home," and then format the memory card using this product.

Do not use / store the product in the following places

- In an extremely hot, cold or humid place
  In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Storing under direct sunlight or near a heater
  The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near strong magnetic place
- In sandy or dusty places
  Be careful not to let sand or dust get into the product. This may cause the product to malfunction, and in some cases this malfunction cannot be repaired.

On operating temperatures

Your product is designed for use under the temperatures between 0°C and 40 °C (32 °F and 104 °F). Shooting in extremely cold or hot places that exceed this range is not recommended.

On moisture condensation

- If the product is brought directly from a cold to a warm location, moisture may condense

inside or outside the product. This moisture condensation may cause a malfunction of the product.
- If moisture condensation occurs, turn off the product and wait about an hour for the moisture to evaporate. Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images.

On the functions available with the product

This manual describes the functions of 1080 60i-compatible devices and 1080 50i-compatible devices. To check whether this product is a 1080 60i-compatible device or 1080 50i-compatible device, look for the following marks on the bottom of the product.

- 1080 60i-compatible device: 60i
- 1080 50i-compatible device: 50i

Notes for when on board an airplane

- In an airplane, set [Airplane Mode] to [On].

On image data compatibility

This product conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).

- Playback of images recorded with your product on other equipment and playback of images recorded or edited with other equipment on your product are not guaranteed.

Notes on playing movies on other devices

- This product uses MPEG-4 AVC/H.264 High Profile for AVCHD format recording. For this reason, movies recorded in AVCHD format with this product cannot be played by the following devices.
  - Other devices compatible with AVCHD format that does not support High Profile
  - Devices incompatible with the AVCHD format

  This product also uses MPEG-4 AVC/H.264 Main Profile for MP4 format recording. For this reason, play back movies recorded in MP4 format with this product on MPEG-4 AVC/H.264 supported devices.
- Discs recorded with HD (high definition) image quality can be played back only on AVCHD format-compatible devices.
  DVD-based players or recorders cannot play back HD image quality discs, as they are incompatible with the AVCHD format. Also, DVD-based players or recorders may fail to eject HD image quality discs that are recorded using the AVCHD format.

On the monitor and lens

- The monitor is manufactured using extremely high-precision technology so over 99.99 % of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points (white, red, blue or green in color) that constantly appear on the monitor. These points are normal in the manufacturing process and do not affect the images in any way.
- Exposing the monitor or lens to direct sunlight for long periods may cause a malfunction. Exercise caution when placing the product near a window or outdoors.
- Do not press against the monitor. The monitor may be discolored and that may cause a malfunction.
- Images may trail across on the monitor in a cold location. This is not a malfunction.
- If the monitor has drops of water or other liquids on it, wipe it with a soft cloth. If the monitor stays wet, the surface of the monitor may change or deteriorate. This may cause a malfunction.
- When the battery pack is discharged, the product may shut off while the lens is still extended. Insert a charged battery pack, then turn the product on again.
- Make sure not to bump the lens or subject it to force.

Notes on the flash

- Do not cover the flash with your fingers.
- Do not carry the product by the flash unit, or use excessive strength on it.
- If water, dust or sand get into the open flash unit, it may cause a malfunction.

Notes on discarding or transferring this product to others

- Perform [Setting Reset] to reset all the settings.

Notes on use
4-477-079-12(1)
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SONY

Help Guide

Use

Still Camera

DSC-RX10

On the internal rechargeable battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or whether the battery pack is charged or discharged. This rechargeable battery is continually charged as long as you are using the product. However, if you use the product for only short periods, it gradually discharges. If you do not use the product at all for about 1 month(s) it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the product. However, even if this rechargeable battery is not charged, you can still use the product as long as you do not record the date and time.

Charging method of the internal rechargeable battery

Insert a charged battery pack into the product, or connect the product to a wall outlet (wall socket) using the AC Adaptor (supplied), and leave the product for 24 hours or more with the power off.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

Notes on the battery pack

Charging the battery pack

- Charge the battery pack (supplied) before using the product for the first time.
- The charged battery pack will discharge little by little even if you do not use it. Charge the battery pack each time before you use the product so that you do not miss any opportunities to shoot images.
- You can charge the battery pack even if it is not completely discharged. You can use a partially charged battery pack.
- If the Charge lamp flashes and charging is canceled halfway, remove the battery pack once then reinsert it.
- We recommend charging the battery pack in an ambient temperature of between 10 °C and 30 °C (50 °F and 86 °F). The battery pack may not be effectively charged in temperatures outside this range.
- When you connect this product and a laptop computer that is not connected to a power source, the laptop's battery charge may decrease. Do not charge this product using the laptop computer for too long.
- Do not turn on/restart a computer, wake a computer from sleep mode, or turn off a computer while this product is connected to the computer via USB cable. Doing so may cause a malfunction of this product. Disconnect the product and the computer before performing the above operations.
- We do not guarantee charging if you are using a self-built or modified computer.

Charging time (Full charge)

The charging time is approximately 310 minutes using the AC adaptor (supplied). The above charging time applies when charging a fully depleted battery pack at a temperature of 25°C (77°F). Charging may take longer depending on conditions of use and circumstances.

Effective use of the battery pack

- Battery performance decreases in low temperature environments. So in cold places, the operational time of the battery pack is shorter. To ensure longer battery pack use, we recommend putting the battery pack in your pocket close to your body to warm it up, and insert it in the product immediately before you start shooting. If there are any metal objects such as keys in your pocket, be careful of causing a short-circuit.

The battery pack will run down quickly if you use the flash or zoom frequently.

- We recommend preparing spare battery packs and taking trial shots before taking the actual shots.
- Do not expose the battery pack to water. The battery pack is not water-resistant.
- Do not leave the battery pack in extremely hot places, such as in a car or under direct sunlight.
- If the battery terminal is dirty, you may not be able to turn on the product or the battery pack may not be properly charged. In that case, clean the battery by lightly wiping off any dust using a soft cloth or a cotton swab.

Remaining battery indicator

- The remaining battery indicator appears on the screen.



A: Battery level high
B: Battery exhausted

- It takes about one minute for the correct remaining battery indicator to appear.
- The correct remaining battery indicator may not be displayed under some operating or environmental conditions.
- If you do not operate the product for a certain period of time while the power is on, the product turns off automatically (Auto power-off function).
- If the remaining battery time does not appear on the screen, press the DISP (Display Setting) button to display it.

How to store the battery pack

- To maintain the battery pack’s function, charge the battery pack and then fully discharge it in the product at least once a year before storing it. Store the battery pack in a cool, dry place.
- To use the battery pack up, leave the product in slide show playback mode until the power goes off.
- To prevent staining the terminal, short-circuiting, etc., be sure to use a plastic bag to keep away from metal materials when carrying or storing the battery pack.

On battery life

- The battery life is limited. If you use the same battery repeatedly, or use the same battery for a long period, the battery capacity decreases gradually. If the available time of the

battery is shortened significantly, it is probably time to replace the battery pack with a new one.

- The battery life varies according to how the battery pack is stored and the operating conditions and environment in which each battery pack is used.

Notes on use
4-477-079-12(1)
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SONY

Help Guide

Use

Still Camera

DSC-RX10

Charging the battery pack

- The supplied AC Adaptor is dedicated to this product. Do not connect with other electronic devices. Doing so may cause a malfunction.
- Make sure to use a genuine Sony AC Adaptor.
- If the product's Charge lamp flashes while charging, remove the battery pack being charged, and then insert the same battery pack firmly back into the product. If the Charge lamp flashes again, this may indicate a faulty battery or that a battery pack other than the specified type has been inserted. Check that the battery pack is the specified type.
  If the battery pack is the specified type, remove the battery pack, replace it with a new or different one and check that the newly inserted battery is charging correctly. If the newly inserted battery is charging correctly, the previously inserted battery may be faulty.
- If the Charge lamp flashes even if the AC Adaptor is connected to the product and the wall outlet (wall socket), this indicates that charging has stopped temporarily and is on standby. Charging stops and enters standby status automatically when the temperature is outside of the recommended operating temperature. When the temperature returns to the appropriate range, charging resumes and the Charge lamp lights up again. We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F).
- Even if the supplied AC Adaptor is used with the product when you shoot or play back images, power is not supplied from the wall outlet (wall socket). If you use the AC Adaptor AC-PW20 (sold separately), you will be able to shoot or play back images while power is supplied from the wall outlet (wall socket).

Notes on use

4-477-079-12(1)

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SONY
Help Guide
Use
Still Camera
DSC-RX10

Memory card

Memory card

Card Type Indications in Help Guide
“Memory Stick PRO Duo” media
(“Memory Stick XC-HG Duo” media/“Memory Stick PRO Duo” media/“Memory Stick PRO-HG Duo” media)
“Memory Stick Micro” media
(“Memory Stick Micro” (M2) media/“Memory Stick Micro” (Mark2) media)
SD card
(SD memory card/SDHC memory card/SDXC memory card)
microSD memory card
(microSD memory card/microSDHC memory card/microSDXC memory card)

- “Memory Stick PRO Duo” media, “Memory Stick XC-HG Duo” media and SD cards up to 64 GB have been tested and proven to operate with this product.
- “Memory Stick Micro” media up to 16 GB and microSD memory cards up to 64 GB have been tested and proven to operate with this product.
- When recording movies, the following memory cards are recommended:
  - MEMORY STICK PRO DUO (Mark2) (“Memory Stick PRO Duo” media (Mark2))
  - MEMORY STICK XC-HG DUO (“Memory Stick XC-HG Duo” media (Mark2))
  - MEMORY STICK PRO-HG DUO (“Memory Stick PRO-HG Duo” media)
  - MEMORY STICK MICRO (Mark2) (“Memory Stick Micro” media (Mark2))
  - Class 4 SD card or faster, Class 4 microSD memory card or faster

Note

- When you use a memory card with this product for the first time, it is recommended that you format the card using the product for stable performance of the memory card before shooting.
  Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save precious data on a computer, etc.
- If you repeatedly shoot and delete images for a long time, fragmentation of data in a file in the memory card may occur, and movie recording may be interrupted in the middle of shooting. If this happens, save your images to a computer or other storage location, then execute [Format].

- Memory card formatted with a computer is not guaranteed to operate with the product.
- Data read/write speeds differ depending on the combination of the memory card and the equipment used.
- We recommend backing up important data, such as to a hard disk of a computer.
- Do not attach a label on the memory card itself nor on a memory card adaptor.
- Do not touch the terminal section of the memory card with your hand or a metal object.
- Do not strike, bend or drop the memory card.
- Do not disassemble or modify the memory card.
- Do not expose the memory card to water.
- Do not leave the memory card within the reach of small children. They might accidentally swallow it.
- The memory card may be hot just after it has been used for a long time. Be careful when you handle it.
- Do not insert a memory card that does not fit the memory card slot. Doing so will cause a malfunction.
- Do not use or store the memory card under the following conditions:
  - High temperature locations such as in a car parked under the sun
  - Locations exposed to direct sunlight
  - Humid locations or locations with corrosive substances present
- Images recorded on “Memory Stick XC-HG Duo” media, SDXC memory cards and micro SDXC memory cards cannot be imported to or played on computers or AV devices that are not compatible with exFAT when connected using a micro USB cable. Make sure that the device is compatible with exFAT before connecting it to the product. If you connect your product to an incompatible device, you may be prompted to format the card. Never format the card in response to this prompt, as doing so will erase all data on the card. (exFAT is the file system used on “Memory Stick XC-HG Duo” media, SDXC memory cards and micro SDXC memory cards.)

Notes on using the memory card adaptor (sold separately)

- When inserting a memory card into a memory card adaptor, be sure that the memory card is inserted in the correct direction and then insert it as far as it will go. If the card is not inserted properly, it may result in a malfunction.
- When you use “Memory Stick Micro” media or a microSD memory card with this product, be sure to insert it into a dedicated memory card adaptor first.

“Memory Stick” media

The types of “Memory Stick” media that can be used with the product are as follows. However, proper operation cannot be guaranteed for all “Memory Stick” media functions.

- **“Memory Stick PRO Duo” media:** *1*2*3
- **“Memory Stick PRO-HG Duo” media:** *1*2

- **“Memory Stick XC-HG Duo” media:** *1*2
- **“Memory Stick Micro (M2)” media:** *1
- **“Memory Stick Micro (Mark2)” media:** *1

*1This “Memory Stick” is equipped with MagicGate function. MagicGate is copyright protection technology that uses encryption technology. Data recording/playback that requires MagicGate functions cannot be performed with this product.

*2High-speed data transfer using a parallel interface is supported.

*3When recording movies, only media marked with Mark2 can be used.

Notes on using “Memory Stick Micro” media (sold separately)

- This product is compatible with “Memory Stick Micro” media (“M2”). “M2” is an abbreviation for “Memory Stick Micro” media.
- To use a “Memory Stick Micro” media with this product, be sure to insert the “Memory Stick Micro” media into an “M2” Adaptor as large as Duo size. If you insert a “Memory Stick Micro” media into the product without an “M2” Adaptor as large as Duo size, you might not be able to remove it from the product.
- Do not leave the “Memory Stick Micro” media within the reach of small children. They might accidentally swallow it.

Notes on use
4-477-079-12(1)
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SONY
Help Guide
Use
Still Camera
DSC-RX10

On cleaning

Cleaning the lens and flash

Wipe the lens and flash with a soft cloth to remove fingerprints, dust, etc.

Cleaning the lens

- Do not use a cleaning solution containing organic solvents, such as thinner, or benzine.
- When cleaning the lens surface, remove dust with a commercially available blower. In case of dust that sticks to the surface, wipe it off with a soft cloth or tissue paper slightly moistened with lens cleaning solution. Wipe in a spiral pattern from the center to the outside. Do not spray lens cleaning solution directly onto the lens surface.

Cleaning the flash

Clean the flash surface before use. The heat of the flash emission may cause dirt on the flash surface to start smoking or burning. Wipe the flash surface with a soft cloth to remove dirt or dust, etc.

Cleaning the product surface

Clean the product surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

- Do not expose the product to chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
- Do not touch the product with any of the above on your hand.
- Do not leave the product in contact with rubber or vinyl for a long time.

Cleaning the monitor

- If oil from your hand or hand cream, etc., remain on the monitor, the original coating may become easily removable. Wipe oil or hand cream off as soon as possible.
- If you wipe the monitor firmly using tissue paper, etc., the coating may be scratched.
- If the monitor becomes dirty with fingerprints or dust, gently remove the dust from the surface, and then clean the monitor using soft cloth, etc.

Notes on use
4-477-079-12(1)
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SONY

Help Guide

Use

Still Camera

DSC-RX10

Number of still images

The number of still images may vary depending on the shooting conditions and the memory card.

[Image Size]: [L: 20M]
When [Aspect Ratio] is set to [3:2]*

Standard
2GB: 295 images
4GB: 590 images
8GB: 1200 images
16GB: 2400 images
32GB: 4850 images
64GB: 9600 images

Fine
2GB: 170 images
4GB: 345 images
8GB: 700 images
16GB: 1400 images
32GB: 2800 images
64GB: 5600 images

Extra fine
2GB: 125 images
4GB: 255 images
8GB: 520 images
16GB: 1000 images
32GB: 2050 images
64GB: 4150 images

RAW & JPEG
2GB: 58 images
4GB: 115 images
8GB: 235 images
16GB: 475 images
32GB: 950 images
64GB: 1900 images

RAW

2GB: 88 images
4GB: 175 images
8GB: 355 images
16GB: 710 images
32GB: 1400 images
64GB: 2850 images

*When the [Aspect Ratio] is set to other than [3:2], you can record more pictures than shown above. (Except when [Quality] is set to [RAW].)

Note

- Even if the number of remaining shootable images is greater than 9,999, the “9999” indicator appears.
- When an image shot with other products is played back on this product, the image may not appear in the actual image size.

Notes on use
4-477-079-12(1)
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SONY

Help Guide

Use

Still Camera

DSC-RX10

Recordable time of movies

The table below shows the approximate maximum recording times which can be recorded on the memory card that is formatted with this product. These numbers are the total times of all movie files on the memory card. The recordable time may vary depending on the shooting conditions and the memory card.
(h (hour), m (minute))

60i 24M(FX)
50i 24M(FX)
2GB: 10 m
4GB: 20 m
8GB: 40 m
16GB: 1 h 30 m
32GB: 3 h
64GB: 6 h
60i 17M(FH)
50i 17M(FH)
2GB: 10 m
4GB: 30 m
8GB: 1 h
16GB: 2 h
32GB: 4 h 5 m
64GB: 8 h 15 m

60p 28M(PS)
50p 28M(PS)
2GB: 9 m
4GB: 15 m
8GB: 35 m
16GB: 1 h 15 m
32GB: 2 h 30 m
64GB: 5 h 5 m
24p 24M(FX)
25p 24M(FX)
2GB: 10 m

4GB: 20 m
8GB: 40 m
16GB: 1 h 30 m
32GB: 3 h
64GB: 6 h

24p 17M(FH)
25p 17M(FH)

2GB: 10 m
4GB: 30 m
8GB: 1 h
16GB: 2 h
32GB: 4 h 5 m
64GB: 8 h 15 m

1440×1080 12M

2GB: 15 m
4GB: 40 m
8GB: 1 h 20 m
16GB: 2 h 45 m
32GB: 5 h 30 m
64GB: 11 h 5 m

VGA 3M

2GB: 1 h 10 m
4GB: 2 h 25 m
8GB: 4 h 55 m
16GB: 9 h 55 m
32GB: 20 h
64GB: 40 h 10 m

Continuous shooting is possible for approximately 29 minutes for each shooting (limited by product specifications). For [MP4 12M] size movies, continuous shooting is possible for approximately 15 minutes (limited by 2 GB file size).

Note

- The recordable time of movies varies because the product is equipped with VBR (Variable Bit Rate), which automatically adjusts image quality depending on the shooting scene.
  When you record a fast-moving subject, the image is clearer but the recordable time is shorter because more memory is required for recording.
  The recordable time also varies depending on the shooting conditions, the subject or the image quality/size settings.

Notes on use

4-477-079-12(1)
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SONY
Help Guide
Use
Still Camera
DSC-RX10

Plug adaptor

You can use the AC Adaptor (supplied) in any country or region where the power supply is within 100 V to 240 V AC, 50 Hz/60 Hz.

Note

- Do not use an electronic voltage transformer as doing so may cause a malfunction.

Notes on use
4-477-079-12(1)
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SONY
Help Guide
Use
Still Camera
DSC-RX10

On TV color systems

To view movies shot using this product on a television, the product and television must use the same color television system. Check the TV color system for the country or region where you are using the product.

- **NTSC system:**
  Bahama Islands, Bolivia, Canada, Central America, Chile, Colombia, Ecuador, Jamaica, Japan, Korea, Mexico, Peru, Surinam, Taiwan, the Philippines, the U.S.A., Venezuela, etc.
- **PAL system:**
  Australia, Austria, Belgium, China, Croatia, Czech Republic, Denmark, Finland, Germany, Holland, Hong Kong, Hungary, Indonesia, Italy, Kuwait, Malaysia, New Zealand, Norway, Poland, Portugal, Rumania, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, Turkey, United Kingdom, Viet Nam, etc.
- **PAL-M system:**
  Brazil
- **PAL-N system:**
  Argentina, Paraguay, Uruguay
- **SECAM system:**
  Bulgaria, France, Greece, Guiana, Iran, Iraq, Monaco, Russia, Ukraine, etc.

Notes on use
4-477-079-12(1)
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SONY

Help Guide

Use

Still Camera

DSC-RX10

Carl Zeiss lens

The camera is equipped with a Carl Zeiss lens which is capable of reproducing sharp images with excellent contrast. The lens for the camera has been produced under a quality assurance system certified by Carl Zeiss in accordance with the quality standards of Carl Zeiss in Germany.

Notes on use

4-477-079-12(1)

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Help Guide

Use

Still Camera

DSC-RX10

AVCHD format

The AVCHD format was developed for high-definition digital video cameras when recording an HD (High-Definition) signal using high-efficiency compression coding technology. The MPEG-4 AVC/H.264 format is used to compress video data, and the Dolby Digital or Linear PCM system is used to compress audio data.
The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format.

- As the AVCHD format uses compression coding technology, the picture may be unstable in scenes where the screen, angle of view, or brightness, etc. change drastically, but this is not a malfunction.

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Help Guide
Use
Still Camera
DSC-RX10

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How to Use

Still Camera

DSC-RX10

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Help Guide

eshooting

Still Camera

DSC-RX10

Troubleshooting

If you experience trouble with the product, try the following solutions.

1. Check the items under “Troubleshooting”, then check the product.
   If a message such as “C/E:□□:□□” appears on the screen, refer to the self-diagnosis display.
2. Remove the battery pack, wait for about one minute, re-insert the battery pack, then turn on the power.
3. Initialize the settings.
4. Consult your dealer or local authorized service facility. Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.
   http://www.sony.net/

Related Topic

- Self-diagnosis display
- Setting Reset

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DSC-RX10

You cannot insert the battery pack into the product.

- Make sure the direction of the battery pack is correct, and insert it until the lock lever is locked.

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Still Camera
DSC-RX10

You cannot turn on the product.

- After inserting the battery pack into the product, it may take a few moments for the product to power up.
- Make sure that the battery pack is inserted correctly.
- The battery pack will discharge by itself even if you do not use it. Charge the battery pack before use.
- Make sure that the battery is NP-FW50.

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Still Camera
DSC-RX10

The power turns off suddenly.

- Depending on the product and battery pack temperature, the product may turn off automatically to protect itself. In this case, a message is displayed on the product screen before the product turns off.
- If you do not operate the product for a certain period of time, it turns off automatically to prevent wearing down the battery pack. Turn on the product again.

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The remaining battery level indicator shows an incorrect level.

- This phenomenon occurs when you use the product in an extremely hot or cold location.
- Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.

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The charge lamp on the product flashes when charging the battery pack.

- Make sure that the battery is NP-FW50.
- When you charge a battery pack that has not been used for a long time, the charge lamp on the product may flash in rare cases. If this happens, remove the battery pack and re-insert it.

Related Topic

Notes on the battery pack

Notes on use

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The battery pack has not been charged even if the charge lamp on the product has turned off.

- This phenomenon occurs when you charge the battery pack in an extremely hot or cold location. The optimum temperature for charging the battery pack is between 10 °C and 30 °C (50 °F and 86 °F).

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Still Camera
DSC-RX10

The battery pack is not charged.

- When the battery pack is not charged (the charge lamp does not light) even if you follow the proper charging procedure, remove the battery pack and re-insert the same battery pack securely, or disconnect and reconnect the USB cable.

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You cannot record images.

- You are using a memory card with a write-protect switch, and the switch is set to the LOCK position. Set the switch to the record position.
- Check the free capacity of the memory card.
- You cannot record images while charging the flash.

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Recording takes a long time.

- The noise reduction function is processing an image. This is not a malfunction.
- You are shooting in RAW mode. Since RAW data files are large, RAW mode shooting may take time.
- The [Auto HDR] function is processing an image.
- The product is compiling images.

Related Topic

- Long Exposure NR (still image)
- High ISO NR (still image)
- Auto HDR
- Superior Auto
- Multi Frame NR

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Troubleshooting

Still Camera

DSC-RX10

The image is out of focus.

- The subject is too close. Shoot from the shortest shooting distance (W side: Approx. 3 cm (1.2 inches), T side: Approx. 30 cm (0.99 ft (from the lens)).
- Press the shutter button halfway down, then shoot images.
- Ambient light is insufficient.
- The subject you are shooting is not suitable for auto-focusing. Shoot in [Flexible Spot] mode or manual focus mode.

Related Topic

- Focus Area
- Manual Focus

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Zoom does not work.

- You cannot use zoom functions during Sweep Panorama shooting.
- You can use only the optical zoom in the following situations:
  - When using Smile Shutter function.
  - [Quality] is set to [RAW] or [RAW & JPEG].

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The flash does not work.

- Raise the flash.
- You cannot use a flash in the following situations:
  - [Anti Motion Blur], [Night Scene] or [Hand-held Twilight] in Scene Selection is selected.
  - During Sweep Panorama shooting.
  - During movie recording.

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DSC-RX10

Fuzzy white circular spots appear on images shot using the flash.

- Particles (dust, pollen, etc.) in the air reflected the flash light and appeared on the image. This is not a malfunction.

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The close-up shoot function (Macro) does not work.

- The product automatically adjusts the focus. Press and hold the shutter button halfway down. Focus adjustment may take some time when shooting a close subject.
- The close-up shoot function does not work when [Sports Action], [Landscape] or [Night Scene] in Scene Selection is selected.

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The recording date and time are not displayed on the screen.

- While shooting, the date and time are not displayed. They are displayed only during playback.

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The date and time are recorded incorrectly.

- Set the correct date and time.
- The area selected using [Area Setting] differs from the actual area. Select the actual area.

Related Topic

- Date/Time Setup
- Area Setting

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The aperture value and/or shutter speed and/or metering indicator flashes.

- The subject is too bright or too dark to shoot using the current aperture value and/or shutter speed settings. Readjust the settings.

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The image colors are not correct.

- Adjust [White Balance].
- [Picture Effect] is set. Set [Picture Effect] to [Off].
- To reset settings to default, perform [Setting Reset].

Related Topic

- White Balance
- Picture Effect
- Setting Reset

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Noise appears in the image when you view the screen in a dark place.

- The product is attempting to increase the visibility of the screen by temporarily brightening the monitor under conditions of low illumination. There is no effect on the recorded image.

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Dark shadow appears on the image.

- Depending on the brightness of the subject, you may see a dark shadow when you change the aperture. This is not a malfunction.

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The eyes of the subject come out red.

- Set [Red Eye Reduction] to [On].
- Shoot the subject at a distance closer than the flash range using the flash.
- Light the room and shoot the subject.

Related Topic

Red Eye Reduction

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Dots appear and remain on the screen.

- This is not a malfunction. These dots are not recorded.

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You cannot shoot images continuously.

- The memory card is full. Delete unnecessary images.
- The battery level is low. Insert a charged battery pack.

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The image is not clear in the viewfinder.

- Adjust the diopter scale properly using the diopter-adjustment dial.

Related Topic

- Adjusting the viewfinder (diopter-adjustment)

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Troubleshooting

Still Camera

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The image is whitish (Flare)./Blurring of light appears on the image (Ghosting).

- The picture was taken under backlit conditions, and excessive light has entered the lens. Attach a lens hood.

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The image is blurred.

- Activate the SteadyShot function by pressing the shutter button halfway down and then shoot images.
- The picture was taken in a dark location without the flash, resulting in product-shake. The use of a tripod or the flash is recommended. [Hand-held Twilight] and [Anti Motion Blur] in [Scene Selection] are also effective in reducing blur.

Related Topic

- Using flash
- Scene Selection

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The LCD screen darkens after a short period of time passed.

- If you do not operate the product for a certain period of time, the product switches to the power-save mode. The product exits power-save mode when you perform operations such as pressing the shutter button halfway.

Related Topic

Pwr Save Start Time

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The flash takes too long to recharge.

- The flash has been fired in succession in a short period. When the flash has been fired in succession, the recharging process may take longer than usual to avoid overheating of the camera.

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Still Camera
DSC-RX10

Images cannot be played back.

- Make sure that the memory card is fully inserted into the product.
- The folder/file name has been changed on your computer.
- When an image file has been processed by a computer or when the image file was recorded using a model other than this product, playback on this product is not guaranteed.
- The product is in USB mode. Disconnecting the product from the computer.
- Use “PlayMemories Home” to play back on this product images that are stored on your computer.

Related Topic

- Disconnecting the product from the computer

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The date and time are not displayed.

- The screen display is set to display images only. Press DISP (Display Setting) on the control wheel to display the information.

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Troubleshooting

Still Camera

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The image cannot be deleted.

- Cancel the protection.

Related Topic

Protect

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The image was deleted by mistake.

- Once you have deleted an image, you cannot restore it. We recommend that you protect images that you do not want to delete.

Related Topic

Protect

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A DPOF mark cannot be put.

- You cannot place DPOF marks on RAW images.

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You cannot find the wireless access point to be connected.

- Wireless access points may not be displayed on the product due to signal conditions. Place the product closer to the wireless access point.
- Wireless access points may not be displayed on the product depending on the access point settings. Refer to the instruction manual of the wireless access point.

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[WPS Push] does not work.

- [WPS Push] may not work depending on the access point settings. Check the SSID and password of the wireless access point, and perform [Access Point Set.].

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[Send to Computer] is canceled halfway.

- When the battery remaining level is low, [Send to Computer] may be canceled halfway. Charge the battery pack and try again.

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You cannot send movies to a smartphone.

- You cannot send AVCHD movies to a smartphone. Set [File Format] to [MP4] to record movies.

Related Topic

- File Format (movie)

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Troubleshooting
Still Camera
DSC-RX10

[Ctrl w/ Smartphone] or [Send to Smartphone] is canceled halfway.

- When the remaining battery level is low, [Ctrl w/ Smartphone] or [Send to Smartphone] may be canceled halfway. Charge the battery pack and try again.

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The shooting screen for [Ctrl w/ Smartphone] is not displayed smoothly./The connection between this product and the smartphone is disconnected.

- Data communication between this product and the smartphone may fail due to signal conditions. Place this product closer to the smartphone.

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You cannot use One-Touch connection (NFC).

- Place the (N mark) on the smartphone and the (N mark) on the product as close together as possible. If there is no response, move the smartphone a few millimeters or move the smartphone away from this product, wait more than 10 seconds, and then touch them together again.
- [Airplane Mode] is activated. Set [Airplane Mode] to [Off].
- Check whether the NFC function is activated on your smartphone. For details, refer to the instruction manual of the smartphone.
- Do not place any metal objects other than a smartphone near the (N mark).
- Do not contact two or more smartphones to this product at the same time.
- If another NFC-based application is running on your smartphone, terminate that application.

Related Topic

Airplane Mode

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Troubleshooting

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The computer does not recognize this product.

- Set [USB Connection] to [Mass Storage].
- Use the micro USB cable (supplied) to connect the devices.
- Disconnect the USB cable, and connect it again firmly.
- Disconnect all equipment other than this product, the keyboard and the mouse from the USB terminals of your computer.
- Connect this product directly to your computer without passing through a USB hub or other device.

Related Topic

- USB Connection

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You cannot import images.

- Connect this product and your computer correctly making a USB connection.
- When you shoot images with a memory card formatted by a computer, you may not be able to import the images to a computer. Shoot using a memory card formatted by this product.

Related Topic

- onnecting the product to a computer
- ormat

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The image and sound are interrupted by noise when viewing a movie on a computer.

- You are playing back the movie directly from the memory card. Import the movie to your computer using “PlayMemories Home” and play it back.

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Images exported from a computer cannot be viewed on this product.

- Use “PlayMemories Home” to copy images that are stored on a computer onto a memory card inserted into this product and view them on this product.

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Formatted the memory card by mistake.

- All the data on the memory card is deleted by formatting. You cannot restore the data.

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Still Camera
DSC-RX10

You cannot print images.

- RAW images cannot be printed. To print RAW images, first convert them to JPEG images using “Image Data Converter.”

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DSC-RX10

The color of the image is strange.

- When you print the images recorded in Adobe RGB mode using sRGB printers that are not compatible with Adobe RGB (DCF2.0/Exif2.21), the images are printed at a lower saturation.

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Images are printed with both edges cut off.

- Depending on your printer, the left, right, top, and bottom edges of the image may be cut off. Especially when you print an image shot with [Aspect Ratio] set to [16:9], the lateral end of the image may be cut off.
- When printing images using your printer, cancel the trimming or borderless settings of the printer. Consult the printer manufacturer as to whether the printer provides these functions or not.
- When you print images at a shop, ask the shop whether they can print the images without cutting off both edges.

Related Topic

Aspect Ratio (still image)

Notes on use

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You cannot print images with the date.

- If you set [Write Date] to [On], you can print still images with the date. Note that you cannot delete the date from the image on the camera.
- If you want to print images with the date, use [Print Setting] under [Specify Printing].
- You can print images with the date superimposed if the printer or the software can recognize Exif information. For compatibility with Exif information, consult the manufacturer of the printer or the software.
- Using “PlayMemories Home,” you can print images with the date without recording the date.
- When you print images at a shop, images can be printed with the date if you ask them to do so.

Related Topic

Write Date (still image)

Specify Printing

Notes on use

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DSC-RX10

The lens gets fogged.

- Moisture condensation has occurred. Turn off the product and leave it for about an hour before using it.

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The product stops with the lens portion extended./The product turns off with the lens portion extended.

- Do not attempt to force lens that has stopped moving.
- Insert a charged battery pack, then turn the product on again.

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The product becomes warm when you use it for a long time.

- This is not a malfunction. Turn off the product and do not use it for a while.

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The Clock Set screen appears when you turn on the product.

- Set the date and time again.
- The internal rechargeable backup battery has discharged. Insert a charged battery, and set aside for 24 hours or more with the power left off.

Related Topic

Date/Time Setup

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DSC-RX10

The number of recordable images does not decrease, or decreases two images at a time.

- This is because the compression rate and the image size after compression change depending on the image when you shoot a JPEG image.

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DSC-RX10

The product does not work properly.

- Turn off the product. Remove the battery pack and insert it again. If the product is hot, remove the battery pack, and allow it to cool down before trying this corrective procedure.
- If an AC-PW20 AC Adaptor (sold separately) is used, disconnect the power cord. Connect the power cord and turn on the product again. If the product repeats the same error often or still does not work after trying these solutions, consult your Sony dealer or local authorized Sony service facility.

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DSC-RX10

Self-diagnosis display

If a code starting with a letter of the alphabet appears, the self-diagnosis function on this product is working. The last two digits (indicated by □□) will differ depending on the state of this product.
If you cannot solve the problem even after trying the following corrective actions a few times, this product may need repair. Contact your Sony dealer or local authorized Sony service facility.

C:32:□□

- There is trouble with the product’s hardware. Turn the power off and on again.

C:13:□□

- This product cannot read or write data on the memory card. Try turning off and on this product again, or taking out and inserting the memory card several times.
- An unformatted memory card is inserted. Format the memory card.
- The inserted memory card cannot be used with this product, or the data is damaged. Insert a new memory card.

E:61:□□

E:62:□□

E:91:□□

- A product malfunction has occurred. Initialize this product, then turn the power on again.

E:94:□□

- There is a malfunction when writing or deleting data. Repair is required. Contact your Sony dealer or local authorized Sony service facility. Be prepared to give all numbers in the error code beginning from the E.

Related Topic

- Format
- Setting Reset

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Still Camera

DSC-RX10

Warning messages

Set Area / Date / Time.

- Set the area, date and time. If you have not used the product for a long time, charge the internal rechargeable backup battery.

Unable to use memory card. Format?

- The memory card was formatted on a computer and the file format was modified. Select [Enter], and then format the memory card. You can use the memory card again, however, all previous data in the memory card is erased. It may take some time to complete the format. If the message still appears, change the memory card.

Memory Card Error

- An incompatible memory card is inserted.
- Formatting has failed. Format the memory card again.

Unable to read memory card. Reinsert memory card.

- An incompatible memory card is inserted.
- The memory card is damaged.
- The terminal section of the memory card is dirty.

This memory card may not be capable of recording and playing normally.

- An incompatible memory card is inserted.

Processing...

- When performing long exposure noise reduction or high ISO noise reduction, the reduction process lasts just as long as the shutter remains open. You cannot do any further shooting during this reduction process.

Unable to display.

- Images recorded with other products or images modified with a computer may not be displayed.

Unable to print.

- You tried to mark RAW images with a DPOF mark.

Internal temp. high. Allow it to cool.

- The product has become hot because you have been shooting continuously. Turn the power off. Cool the product and wait until the product is ready to shoot again.



- You have been recording images for a long time, the product temperature has risen. Stop recording images until the product cools.

Recording is unavailable in this movie format.

- Set [File Format] to [MP4].



- The number of images exceeds that for which date management in a database file by the product is possible.



- Unable to register to the database file. Import all the images to a computer and recover the memory card.

Image DataBase File error

- There is something wrong in the Image Database File. Select [Setup] → [Recover Image DB].

System Error
Camera Error. Turn power off then on.

- Remove the battery pack, and then re-insert it. If the message appears frequently, consult your Sony dealer or local authorized Sony service facility.

Unable to magnify.
Unable to rotate image.

- Images recorded with other products may not be enlarged or rotated.

Related Topic

- On the internal rechargeable battery
- Memory card
- Format

Notes on use

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Help Guide

eshooting

Still Camera

DSC-RX10

Situations this product has difficulty handling

The product cannot take full advantage of some features under certain circumstances. When shooting under the following conditions, either recompose the shot or change the shooting mode, then shoot the images again.

Low light conditions

- Sweep Panorama
- Lock-on AF

Overly bright conditions

- Lock-on AF

Varying levels of brightness

- Lock-on AF

Flickering lights

- Sweep Panorama

Subjects too close to the product

- Sweep Panorama

Large moving subjects or subjects that move too quickly

- Superior Auto
- Lock-on AF
- Sweep Panorama
- Auto HDR

Subjects too small or too large

- Lock-on AF
- Sweep Panorama

Scenes with little contrast, such as the sky or a sandy beach

- Sweep Panorama
- Superior Auto

Scenes changing constantly, such as a waterfall

- Sweep Panorama
- Superior Auto

Related Topic

- Sweep Panorama
- Lock-on AF
- Superior Auto
- Auto HDR

Notes on use

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